



Ministry of  
Transportation  
and Infrastructure

## RECOGNIZED PRODUCTS LIST

July 02<sup>nd</sup>, 2025 Edition



**Rock Slide - Highway #99 Porteau Cove**

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**Note:**

As per recent direction from BC Government on March 4th, 2025, when selecting a product from the RPL, Canadian Suppliers should be considered first, then non-U.S. Suppliers. U.S. Suppliers should only be considered where no reasonable alternative exists.

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# TABLE OF CONTENTS

<b>INTRODUCTIONS/DEFINITIONS.....</b>	<b>10</b>
<b><u>ASPHALT MIX PAVEMENT PRODUCTS.....</u></b>	<b>10</b>
ASPHALT CEMENTS .....	10
<i>GENERAL</i> .....	10
ADDITIVES FOR ASPHALT PAVEMENT MIX .....	10
<i>GENERAL</i> .....	10
LIQUID ASPHALT (CUTBACKS) .....	10
<i>Slow curing</i> .....	11
<i>medium curing</i> .....	11
<i>fast curing</i> .....	11
EMULSIONS .....	11
<i>GENERAL</i> .....	11
<i>HIGH FLOAT</i> .....	11
<i>RAPID SET</i> .....	11
<i>SLOW SET</i> .....	12
<i>OTHERS</i> .....	12
OTHER ASPHALT MIX PAVEMENT ADDITIVES .....	12
<i>ANTI-STRIPPING AGENTS</i> .....	12
<i>WARM MIX ASPHALT ADDITIVES</i> .....	13
<i>ANTI-STRIPPING AGENT/WARM MIX ASPHALT ADDITIVES</i> .....	13
<b><u>ENGINEERED ASPHALT MIX PRODUCTS.....</u></b>	<b>13</b>
<i>MULTI-GRADE</i> .....	13
<i>POLYMER ADDITIVES</i> .....	13
<i>POLYMER MODIFIED ASPHALT</i> .....	13
<i>RUBBER ASPHALT</i> .....	14
<i>PRIMERS</i> .....	14
<i>TACK COATs</i> .....	14
<i>TrACKLESS TACK Coat</i> .....	14
<i>EMULSIFIED PENETRATING PRIMERS</i> .....	15
<i>Fibre reinforcing additive</i> .....	15
HOT JOINT SEALING SYSTEMS .....	15
ASPHALT PAVEMENT / LONGITUDINAL JOINT SEALING SYSTEMS .....	15
<b><u>ASPHALT PAVEMENT REHABILITATION .....</u></b>	<b>15</b>
REJUVENATORS .....	15
<i>CONVENTIONAL</i> .....	15
<i>HOT-IN-PLACE</i> .....	15
<b><u>ASPHALT PAVEMENT MAINTENANCE .....</u></b>	<b>15</b>
CRACK TREATMENT.....	15
<i>CRACK SEALING SYSTEMS</i> .....	15
<i>eMULSIFIED CRACK SEALANTS</i> .....	16
<i>RUBBERIZED &amp; ELASTICIZED CRACK SEALANTS</i> .....	16
<i>ENTIRE PROVINCE</i> .....	16
<i>LOWER MAINLAND SUNSHINE COAST / VANCOUVER ISLAND</i> .....	16
<i>PREFABRICATED CRACK SEALERS (MEMBRANES)</i> .....	16
<i>TRAFFIC LOOP SEALANT</i> .....	16
<i>SURFACE TREATMENT</i> .....	16
<b><u>ASPHALT PATCHING MIXES PROPRIETARY .....</u></b>	<b>17</b>
ASPHALT PATCHING .....	17
<i>ASPHALT BASED - COLD MIX</i> .....	17
<i>ASPHALT BASED - HOT APPLIED</i> .....	17
<i>ASPHALT BASED - SPRAY</i> .....	17
<i>EPOXY BASED</i> .....	17
<i>PORTLAND CEMENT BASED</i> .....	17

SPECIALTY PAVING DEVICES .....	17
<b><u>BRIDGES</u></b> .....	<b>18</b>
ALTERNATIVE COMPOSITE BRIDGE GIRDERS .....	18
BRIDGE BEARINGS.....	18
BRIDGE CONCRETE SEALANTS .....	18
BRIDGE CONCRETE FORM AND SPACING SYSTEMS .....	18
FIBRE REINFORCED POLYMER WRAP SYSTEMS .....	18
<b><u>BRIDGE DECKS</u></b> .....	<b>18</b>
DECK JOINT SYSTEMS .....	18
<i>ASPHALTIC PLUG DECK JOINTS</i> .....	18
<i>OTHER JOINT SYSTEMS</i> .....	19
<i>Expansion Joint Header</i> .....	19
<b><u>GALVANIC ANODES</u></b> .....	<b>19</b>
<b><u>WATERPROOFING FOR CONCRETE BRIDGE DECKS</u></b> .....	<b>19</b>
<u>PREFABRICATED MEMBRANE SYSTEM FOR CONCRETE DECKS</u> .....	19
<u>HOT RUBBERIZED ASPHALT MEMBRANE SYSTEM FOR CONCRETE DECKS</u> .....	19
<u><i>HOT RUBBERIZED ASPHALT MEMBRANE SYsTEMs</i></u> .....	20
<u><i>Components for – HOT RUBBERIZED ASPHALT MEMBRANE SYsTEM</i></u> .....	20
• <i>PROTECTION BOARD</i> .....	20
• <i>RUBBER SHEET</i> .....	20
• <i>FABRIC REINFORCEMENT</i> .....	20
• <i>WICK DRAIN</i> .....	20
<u>OTHER MEMBRANE SYSTEMS</u> .....	21
<i>LIQUID Chemically Cured – Methyl methacrylate, Polymer, EPOXY</i> .....	21
<i>Liquid hot applied rubberized asphalt</i> .....	21
<i>water Resisting materials</i> .....	21
DECK CONCRETE SEALANTS .....	21
<i>Deck overlay Friction surface (epoxy, concrete)</i> .....	22
<b><u>COATING SYSTEMS</u></b> .....	<b>23</b>
BRIDGE STEEL.....	23
<u>CPTP RECOGNIZED PRODUCTS LIST</u> .....	27
<u><i>COATING SYSTEM SELECTION TABLE</i></u> .....	27
<u>STRUCTURAL STEEL – SHOP APPLICATION</u> .....	29
<u>STRUCTURAL STEEL – FIELD APPLICATION</u> .....	31
<u>STRUCTURAL STEEL – FIELD APPLICATION – OVERCOAT</u> .....	35
<u>FIELD APPLICATION – WOOD</u> .....	42
<u>ADDITIONAL PAINT COATINGS</u> .....	43
<i>Zinc-Rich Touchup Paint and Primers</i> .....	43
<b><u>DE-ICING, ANTI-ICING, CHEMICALS DUST PALLIATIVES</u></b> .....	<b>43</b>
<u>DUST PALLIATIVES</u> .....	44
<b><u>DRAINAGE/STORMWATER MANAGEMENT</u></b> .....	<b>44</b>
<b><u>DRAINAGE PIPES</u></b> .....	<b>44</b>
CONCRETE PIPES AND BOX CULVERTS .....	44
CORRUGATED STEEL PIPE .....	45
FIBRE REINFORCED DRAINAGE PIPE.....	45
PLASTIC PIPE .....	45
<i>P.E. (Poly Ethylene)</i> .....	45
<i>Reinforced HD Polyethylene</i> .....	45
<i>P.V.C. (Poly Vinyl Chloride)</i> .....	45
<i>P.P. (Poly Propylene)</i> .....	46
OTHER DRAINAGE PIPE APPLICATIONS .....	46
FITTINGS AND END TREATMENTS .....	46
SHAPES, UTILITY SPACERS & FITTINGS .....	46

OTHER PIPE APPLICATIONS .....	46
<b><u>ELECTRICAL EQUIPMENT – APL0106</u></b> .....	<b>47</b>
GENERAL EQUIPMENT .....	47
LIGHTING EQUIPMENT: LUMINAIRES AND PHOTO ELECTRIC CELLS .....	47
<i>LED ROADWAY LUMINAIRES – DIRECT REPLACEMENT*</i> .....	47
<i>PEDESTRIAN TUNNEL LUMINAIRES</i> .....	49
<i>PHOTO ELECTRIC CELL AND RECEPTACLES</i> .....	49
<i>MARINE LIGHTING</i> .....	49
POLE STRUCTURES .....	49
<i>POLES AND BASES</i> .....	49
<i>POWDER COAT APPLICATORS</i> .....	51
<i>POWDER COAT PRODUCTS</i> .....	51
<i>GALVANIZING COATING (COLD)</i> .....	51
<i>SERVICE EQUIPMENT</i> .....	51
SIGNAL EQUIPMENT .....	52
UNDERGROUND ELECTRICAL EQUIPMENT .....	56
TRAFFIC CONTROLLER PRODUCTS .....	56
ELECTRONIC SIGNS .....	57
ELECTRONIC DEVICES .....	57
WEB CAMERA PRODUCTS .....	58
SOLAR POWERED CROSSWALK AND WARNING FLASHERS .....	58
AC POWERED CROSSWALK AND WARNING FLASHERS .....	59
CONCRETE BASES .....	59
<b><u>EPOXY PRODUCTS</u></b> .....	<b>60</b>
GENERAL .....	60
CRACK INJECTION .....	60
EPOXY ASPHALT-CONCRETE APPLICATION .....	60
EPOXY SURFACE TREATMENT .....	60
<b><u>EROSION CONTROL, SEDIMENT CONTROL AND REVEGETATION</u></b> .....	<b>60</b>
ROLLED EROSION CONTROL PRODUCTS .....	61
HYDRAULIC EROSION CONTROL PRODUCTS .....	62
PNEUMATIC EROSION CONTROL PRODUCTS .....	62
TACKIFIERS .....	62
FLEXIBLE GROWTH MEDIUM/SOIL AMENDMENTS .....	62
SEDIMENT CONTROL APPLICATIONS .....	62
DITCH BLOCK/BARRIERS .....	63
EROSION – GENERAL .....	63
LANDSCAPING PRODUCTS .....	63
<b><u>FASTENERS</u></b> .....	<b>63</b>
<b><u>FENCING</u></b> .....	<b>63</b>
<b><u>GEOTECHNICAL</u></b> .....	<b>64</b>
<b><u>GEOSYNTHETICS</u></b> .....	<b>64</b>
GEOTEXTILES - WOVEN .....	64
GEOTEXTILES – NONWOVEN .....	64
GEOGRIDS (UNIAXIAL- UX) .....	65
GEOGRIDS (BIAXIAL - BX) .....	65
GEOGRIDS (TRIAXIAL - TX) .....	66
GEOGRIDS (MULTIAXIAL) .....	66
GEOGRIDS COMPOSITES .....	66
GEOGRIDS-PAVEMENTS .....	66
GEOMEMBRANES .....	66
CAPILLARY REINFORCEMENT SYSTEMS .....	66
GEODRAINS .....	67
GEOCOMPOSITES .....	67
GEOFOAM .....	67

CELLULAR CONFINEMENT SYSTEMS .....	67
ENVIRONMENTAL LINERS .....	67
<b><u>HIGHWAY SAFETY DEVICES</u></b> .....	<b>68</b>
BREAKAWAY DEVICES .....	68
BARRIER SIGN CONNECTIONS .....	68
<b><u>HIGHWAY TRAFFIC BARRIERS</u></b> .....	<b>68</b>
CABLE BARRIERS .....	68
CONCRETE BARRIER .....	68
<i>list Manufacturers and suppliers</i> .....	69
<i>Specialty Applications</i> .....	69
STEEL TRAFFIC BARRIERS; STEEL POST & WOOD POST .....	69
WATER FILLED TRAFFIC BARRIERS .....	69
GLARE SCREENS .....	69
IMPACT ATTENUATORS .....	70
STEEL BARRIERS .....	70
NOTE: ABOVE BARRIER PRODUCTS ARE CONSIDERED TEMPORARY IN NATURE AND WOULD BE CONSIDERED THROUGH A PROJECT SPECIFIC TRAFFIC CONTROL PLAN SUBMISSION. TEMPORARY PRODUCTS DO NOT NEED TO BE IN THE RPL AND WILL BE REMOVED IN THE NEXT EDITION. ....	71
WATER FILLED BARRIERS .....	71
<b><u>HAZARDOUS WASTE MANAGEMENT</u></b> .....	<b>71</b>
<b><u>LIGHTWEIGHT FILL MATERIAL</u></b> .....	<b>71</b>
<b><u>PORTLAND CEMENT CONCRETE</u></b> .....	<b>71</b>
PORTLAND CEMENT CONCRETE ADMIXTURES .....	71
ANTI-SKID TREATMENTS .....	72
BONDING AGENT .....	72
CORROSION INHIBITORS .....	72
CURING MEMBRANES .....	72
DECK OVERLAY .....	73
FIELD ANTIGRAFFITI .....	73
GROUTS .....	73
INJECTION SEALERS .....	74
PATCHING PRODUCTS .....	75
SEALANT .....	76
SIDEWALK TOPPING .....	76
EXPANSION JOINT FILLER (CONCRETE CURB, GUTTER AND SIDEWALK ONLY) .....	77
SPECIALTY PRODUCTS .....	77
<b><u>PORTLAND RECYCLED CONCRETE AGGREGATE MATERIAL (RCAM)</u></b> .....	<b>77</b>
<b><u>PRESERVATIVES</u></b> .....	<b>77</b>
WOOD TREATMENT .....	77
<b><u>PROPRIETARY ANCHORING SYSTEMS</u></b> .....	<b>77</b>
GEOTECHNICAL ANCHORS – SOIL, ROCK, SOIL NAILS, MICRO PILES, DRILL DRAINS .....	77
ANCHORS (MECHANICAL AND ADHESIVE) .....	78
MECHANICAL TYPE .....	78
EPOXY OR ADHESIVE TYPE .....	78
OTHER EPOXIES .....	79
<b><u>PROPRIETARY STRUCTURES</u></b> .....	<b>79</b>
CONCRETE ARCHES .....	79
STEEL ARCHES AND PIPES .....	80
MSE RETAINING WALLS SUPPORTING BRIDGE ABUTMENTS .....	80
<i>BRIDGE ABUTMENTS ARE SUPPORTED BY RETAINING MSE WALL (True Abutments</i> .....	80
<i>MSE Walls with NON-EXTENSIBLE Reinforcement Strips</i> .....	80
<i>BRIDGE ABUTMENTS ARE SUPPORTED BY RETAINING MSE WALL (False Abutments).</i> .....	80
<i>MSE Walls with NON-EXTENSIBLE Reinforcement Strips</i> .....	80

<i>MSE Walls with Extensible Reinforcement Strips</i> .....	81
RETAINING WALLS (SUPPORTING LOADS).....	81
RETAINING WALLS - (UP TO 5M IN HEIGHT) WIRE WALLS .....	81
RETAINING WALLS - (UP TO 5M IN HEIGHT) CONCRETE FACED WALLS .....	81
RETAINING WALLS - (UP TO 9M IN HEIGHT) WIRE FACED WALLS .....	82
RETAINING WALLS - (UP TO 9M IN HEIGHT) CONCRETE FACED WALLS .....	82
RETAINING WALLS (SUPPORTING LOADS)- .....	83
INTERLOCKING CONCRETE GRAVITY BLOCK (UP TO 5M IN HT.) WITH GEOSYNTHETIC SOIL REINFORCEMENT .....	83
INTERLOCKING CONCRETE GRAVITY BLOCK (UP TO 9M IN HT.) WITH GEOSYNTHETIC SOIL REINFORCEMENT .....	83
<i>Interlocking Concrete Block Retaining wall 7 Strand Prestressed Wire Cable</i> .....	84
<i>INTERLOCKING CONCRETE BLOCK RETAINING WALL (up to 5m in ht.)</i> .....	84
<i>ACCEPTED Interlocking FORM PATTERN</i> .....	84
RETAINING WALLS (NON-SUPPORTING LOADS).....	84
<i>LANDSCAPING WALLS – (up to 3m in height)</i> .....	84
<i>SLOPE RETENTION SYSTEMS – (up to 5m in height)</i> .....	85
<i>SLOPE RETENTION SYSTEMS - (up to 9m in height)</i> .....	85
MODULAR CONCRETE BLOCKS .....	85
<i>PRECAST CONCRETE INTERLOCKING MODULAR BLOCKS – permanent grade</i> .....	85
ROCK FALL SYSTEMS.....	86
<i>ROCK FALL SLOPE SYSTEMS</i> .....	86
<i>ROCK FALL CATCH FENCES</i> .....	86
<i>ROCK FALL PROTECTION MESH</i> .....	86
SALT STORAGE STRUCTURES .....	86
SOUND ATTENUATION WALL SYSTEMS .....	86
<i>SOUND ABSORPTION WALLS</i> .....	86
<i>SOUND REFLECTIVE WALLS</i> .....	86
<b><u>STRUCTURE PILE REPAIR</u></b> .....	<b>88</b>
<b><u>RAILWAY CROSSINGS</u></b> .....	<b>88</b>
FLANGWAYS.....	88
SURFACES .....	88
<b><u>REINFORCING POLYMERS</u></b> .....	<b>88</b>
GLASS FIBRE REINFORCING POLYMERS .....	88
<b><u>REINFORCING STEEL</u></b> .....	<b>89</b>
ROAD MATERIALS – TEMPORARY .....	89
<b><u>REST AREA IMPROVEMENT</u></b> .....	<b>89</b>
COMPOSITING TOILETS .....	89
ENVIRONMENTAL CLEANUP .....	89
MISCELLANEOUS .....	89
PICNIC TABLES .....	89
WASTE RECEPTACLES .....	89
<b><u>SOIL STABILIZATION</u></b> .....	<b>89</b>
ROADWAY BASE .....	89
<i>ASPHALT EMULSIONS</i> .....	90
<i>B.C. STABILIZER</i> .....	90
<i>CALCIUM CHLORIDE</i> .....	90
<i>GENERAL SOIL STABILIZATION</i> .....	90
<i>LIGNOSULPHONATES</i> .....	91
SUBGRADE BASE.....	91
FOUNDATION BASE .....	91
<i>Expanding INJECTION SOIL STABILIZERS</i> .....	91
<b><u>STEEL &amp; IRON</u></b> .....	<b>91</b>
GENERAL .....	91



<b><u>STEEL &amp; WIRE FENCING MATERIALS</u></b>	<b>91</b>
PRE-CAST FENCE FOOTINGS	91
<b><u>TIMBER</u></b>	<b>92</b>
GLUE LAMINATE	92
TIMBER MATERIALS	92
<b><u>TRAFFIC CONTROL DEVICES</u></b>	<b>92</b>
TRAFFIC CONES	92
DELINEATION	92
ACTIVE DELINEATION	92
ILLUMINATING DELINEATION	92
ILLUMINATING LEDs DELINEATION	92
STATIC ROAD EDGE DELINEATION	93
REFLECTORS	93
CONCRETE BARRIER MOUNTED rEFLECTORS	93
STEEL BEAM BARRIER MOUNTED rEFLECTORS	93
SURFACE REFLECTORS	93
RAISED	93
MISCELLANEOUS	94
<b><u>TRAFFIC SIGN POST BASES</u></b>	<b>95</b>
CONCRETE SINGLE POST SIGN BASES	95
ROUND SIGN POST - BREAKAWAY BASE	95
ALTERNATE BACKFILL FOR CONCRETE SINGLE POST SIGN BASES	95
ALTERNATE SINGLE SIGN BASE ATTACHMENT	95
<b><u>SIGNAGE</u></b>	<b>95</b>
<b><u>REFLECTIVE SHEETING FOR SIGNAGE</u></b>	<b>95</b>
<b><u>PAVEMENT MARKING MATERIALS</u></b>	<b>97</b>
BEADS	97
GLASS BEADS	97
CERAMIC BEADS	97
GLASS BEADS FOR WET REFLECTIVE/RECOVERABLE APPLICATIONS	97
DURABLE PAVEMENT MARKING MATERIALS	97
EPOXY	98
THERMOPLASTIC	98
PROFILED THERMOPLASTIC	98
MMA - METHYL METHACRYLATE	98
MULTI POLYMERS	99
POLYUREA	99
URETHANE	99
TAPE	99
<b><u>WET NIGHT HIGH VISIBILITY TRAFFIC MARKING</u></b>	<b>100</b>
WET NIGHT STRIPING SYSTEMS	100
PREFORMED AND OTHER SPECIALTY TRAFFIC MARKING APPLICATIONS	101
TEMPORARY PAVEMENT MARKING MATERIAL	101
TAPE (TEMPERORY PAVEMENT MARKING TAPE) WET NIGHT CATEGORY	101
<b><u>TRAFFIC MARKING PAINT</u></b>	<b>101</b>
WHITE TRAFFIC PAINT (ALKYD/ acetone, Low voc)	102
YELLOW TRAFFIC PAINT (ALKYD/ acetone, Low voc)	102
WHITE TRAFFIC PAINT (WATER BASED)	103
YELLOW TRAFFIC PAINT (WATER BASED)	104
<b><u>URETHANE INJECTION CRACK SEALERS</u></b>	<b>104</b>
<b><u>WIRE ROPE</u></b>	<b>105</b>

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# **INTRODUCTION & DEFINITIONS**

The Recognized Products List (RPL) document is intended for reference use by Contractors who are providing services or performing work for the Ministry, which entails supplying or providing material for use in the infrastructure.

Products are listed, which in the opinion of the Ministry satisfies the Ministry's generic specifications for the material type and use or are otherwise satisfactory to the Ministry. In some cases, a qualifier on applicability or usage may be included.

This RPL listing is not to be construed to be an endorsement of a given product, or in any way a guarantee of adequate performance relative to the specific Contract requirements.

Use of a listed material/product by a Contractor shall in no way relieve the Contractor from his contractual obligations.

This list is intended to be a **guide only** for Contractors to identify those products which the Ministry feels generally meets its Specifications/Work for particular purposes as:

**“ACCEPTED” products are products recognized to be acceptable and may be used on Ministry Projects as long as the products meet the requirements of the Standard Specifications and/or the Work.**

**“PROVEN” (designated as now accepted);**

**“APPROVED” (designated as accepted) products for which the Ministry has been directly involved in the development of the products for a very specific purpose unique to the Ministry (e.g. traffic paint); and**

**“TRIAL” (designated as trial use only) products are products which have been reviewed for trial purposes for a specified period and may be used subject to the Ministry (Project) accepting the product for use as either identified within special provisions or upon acceptance after contract award. A product approved as trial status can be used on multiple full-scale projects during the trial period.**

Absence from this list of a brand of product does not necessarily imply that it does not meet the Ministry Specifications or Work requirements.

For the latest status of any product, please direct inquiries to the RPL Committee by email to: [RPL@gov.bc.ca](mailto:RPL@gov.bc.ca). The RPL Standing Committee welcomes suggestions for improving its service.

Process explaining the RPL Committee and a products submission form are available online.

**NOTE: Throughout the List, a three/four-digit number in brackets shown after the name of some products is an office “Product Submission Form” file number and has no reference to the Product Name.**

# **RECOGNIZED PRODUCTS LIST**

## **ASPHALT MIX PAVEMENT PRODUCTS**

### **ASPHALT CEMENTS**

#### **GENERAL**

As specified in the Standard Specifications for Highway Construction Section 952 and Special Provisions.

<b>ACCEPTED ASPHALT GRADE PRODUCTS</b>
80-100A, 120-150A, 150-200A, 200-300A.
PG 64-25, PG 64-22, PG 58-31, PG 58-28, PG 52-34, PG 70-22.
<b>ACCEPTED PRODUCERS</b>
Husky (Lloydminster, AB; Kamloops, BC)
Chevron (Vancouver, BC)
Imperial Oil (ESSO) (Edmonton, AB) (055)
Shell (AB)
Montana Refining (Great Falls, Montana)
Moose Jaw Refining (Moose Jaw, SK)
<b>TERMINAL SUPPLIERS from ACCEPTED PRODUCERS</b>
Ambertec (Macklin, SK)
McAsphalt (Acheson, Clairmont, Shepard, AB, Kamloops, BC) (050)
McAsphalt (Calgary, AB; Vancouver, BC) (811)
Lafarge Asphalt Technologies (Clover Bar, AB, Coquitlam BC)*

\*Note: Lafarge PG 58-28 accepted as a trial product in February 2023

## **ADDITIVES for ASPHALT PAVEMENT MIX**

#### **GENERAL**

As specified in Standard Specifications for Highway Construction Section 952 and Special Provisions.

### **LIQUID ASPHALT (CUTBACKS)**

The Notice announcing the final Code of Practice for the Reduction of Volatile Organic Compound (VOC) Emissions from Cutback and Emulsified Asphalt was published in the Canada Gazette, Part I, on February 25, 2017. The Notice provides a link to the Code which is available on Environment and Climate Change Canada's Volatile Organic Compounds website. See <https://www.canada.ca/en/environment-climate-change/services/canadian-environmental-protection-act-registry/guidelines-objectives-codes-practice/reduction-volatile-organic-compound-emulsified-asphalt.html> for information.

Regulated by Ministry of Environment, Waste Management Act – Asphalt Plant Regulation (Part 3 Hot Mix Asphalt and Cutback Asphalt) these products may not be used on roadways between May 1 and Sept 30 as a primer or tack coat.

<b>PRODUCERS</b>
Husky (0401)
Imperial (055)
Moose Jaw

## SLOW CURING

ACCEPTED PRODUCTS
SC-70; SC-250, SC-300, SC-800

## MEDIUM CURING

ACCEPTED PRODUCTS
MC-30, MC-70, MC-250, MC-800

## FAST CURING

ACCEPTED PRODUCTS
RM-20;RC-30; RC-70; RC-250

## EMULSIONS

As specified in Standard Specifications for Highway Construction Section 952 and Special Provisions.

The Notice announcing the final Code of Practice for the Reduction of Volatile Organic Compound (VOC) Emissions from Cutback and Emulsified Asphalt was published in the Canada Gazette, Part I, on February 25, 2017.

The Notice provides a link to the Code which is available on Environment and Climate Change Canada's Volatile Organic Compounds website.

See <https://www.canada.ca/en/environment-climate-change/services/canadian-environmental-protection-act-registry/guidelines-objectives-codes-practice/reduction-volatile-organic-compound-emulsified-asphalt.html> for information.

PRODUCERS	PRODUCERS
McAsphalt (811)	Pounder
	Western Asphalt Products

## GENERAL

As specified Standard Specifications for Highway Construction Section 952 and in Special Provisions.

## HIGH FLOAT

High Float Emulsified Asphalt application will be in accordance with the Standard Specifications for Highway Construction: Section 951 – Asphalt & Paving Material for Highway Use; Section 536 Pavement Crack Sealing; and Special Provisions.

ACCEPTED PRODUCTS
HF-100, HF-100S, HF-100P, HF-150S, HF-150P, HF-250, and HF-500.

## RAPID SET

### Anionic

ACCEPTED PRODUCTS
RS-1; RS-2, MS-1,SS-1,SS-1H, SS-1

## **Cationic**

<b>ACCEPTED PRODUCTS</b>
RS-1K; RS-2K, CRS-2, CRS-2P, QS-KH (CQS-1H) CRS-2, CRS-2P.

## **SLOW SET**

<b>ACCEPTED PRODUCTS</b>
EP2000 (068)
Bitumen Emulsion SS-1

## **OTHERS**

<b>ACCEPTED PRODUCTS</b>
Dow Corning Silicone PMX 200 Fluid (051)
Redicote C2914 (318)

## **OTHER ASPHALT MIX PAVEMENT ADDITIVES**

Pavement additives are recommended to be added at the terminal point with Asphalt Cement to ensure the binder properties meet specifications and environmental concerns are reduced.

## **ANTI-STRIPPING AGENTS**

Use the appropriate Anti-stripping agent for the selected Asphalt (i.e.: HMA, Seal Coat) application. For asphalt concrete mix, adequate dosage is needed to make sure that the Tensile Strength Ration (TSR) requirements are met.

<b>ACCEPTED Manufacturers/Suppliers</b>	<b>ACCEPTED PRODUCTS</b>
Akzo Nobel	Redicote C2914 (318) Redicote AP-1 & E-6 (1135) (special applications)
Road Science (994)	Ad-Here LOF 65-00 (543); Ad Here 77-00 (994); Ad Here 77-00 BL (994); KO- here AS-700 (994); NovaGrip 975 (994); NovaGrip 1016 (994); NovaGrip 1212 (994) Note: NovaGrip and KO-here are TRIAL USE till May 2020 and can be used for a full paving project(s) during the trial period.
Others	CES 446 (052) MeadWestvaco Morlife 5000 (1207) Kao Gripper X2 (1310) Note: Kao Gripper X2 is TRIAL USE till August 2020 and can be used for a full paving project(s) during the trial period.
<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Indulin 814A (for H.F. Emulsions) (053)	Redicote C2914 (318) Redicote AP-1 & E-6 (1135) (special applications)
	Zydex Industries - ZycoTherm or ZycoTherm EZ, ZycoTherm SP (1176), ZycoTherm SP2 (1176) (Trial use till December 2026)
Cargill – ANOVA 1501 (1401) – (Trial use till December 2026) ANOVA 1440 (1401) – (trial use till April 2027)	Chemoran CWM-P (Trial use till April 2026)

## WARM MIX ASPHALT ADDITIVES

Warm mix additive in the Asphalt Pavement Mix may provide additional benefits (compaction enhancement, lower emissions for health/environment, reduced binder deterioration etc.). Locations shall be sent to the Senior Pavement & Materials Engineer for tracking and evaluation over the life cycle.

A Warm Mix process such as foaming (Duraclime) to produce an asphalt mix is acceptable and must comply with SS 502 EPS.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Evotherm 3G (811)	Sasolwax - Sasobit (1098)
Rediset LQ Akzo Nobel (1135) (TRIAL USE till December 2026)	WarmGrip (543) (TRIAL USE only)
Cargill – ANOVA 1501 (1401) – trial use till December 2026	Chemoran CWM, CWM-P (1125) (TRIAL USE till December 2026)

## ANTI-STRIPPING AGENT/WARM MIX ASPHALT ADDITIVES

Note: Products under this category are listed as **TRIAL USE ONLY** and use must be accepted by the Ministry prior to using. (Anti-strip only - use ERMS test). Some products need to be used at a higher dosage than when used as anti-stripping agent. Please confirm with the Ministry Representative.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Evotherm 3G (811)	Cecabase RT Arkema Inc. (1132)
Rediset WMX Akzo Nobel C-150 AP (1135)	WarmGrip (543) replaces Ad-Here LOF 65-00
Rediset LQ Akzo Nobel (1135)	Zydex Industries - ZycoTherm SP (1176)
	ZycoTherm SP2 (1176)

## ENGINEERED ASPHALT MIX PRODUCTS

### MULTI-GRADE

PRODUCERS	
None at the present time.	

### POLYMER ADDITIVES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
SBS Latex	Rosphalt 50 LT (770) (includes paving aggregate) (note product is a polymer additive to asphalt pavement to produce an asphalt pavement with rutting, shoving, and water resistance characteristics)

### POLYMER MODIFIED ASPHALT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Imperial Oil – EB 350 (055)	Bitumen 352 (534) <b>Discontinued</b>
Imperial Oil – EB 352 (055)	Husky Black Max (401)
Infrapave Polymer Binder (473)	

ACCEPTED POLYMER MODIFIED ASPHALT BINDER GRADES	
PG 58-34, PG 58-37, PG 58-40,	PG 64-28, PG 64-34, PG 64-37, PG 64-40,
PG 70-22, PG 70-28, PG 70-34, PG 76-22, PG 76-28, PG 76-31	

**Note:** When ordering polymer modified asphalt binders, it is recommended to mention/specify 'polymer modified' beside the PG grade required (for e.g. PG 64-40 Polymer Modified).

## RUBBER ASPHALT

A concern of rubber asphalt use exists with Hot in Place Recycling rehab applications.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Not accepted.	

## PRIMERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RC-30	Snap Tac (058)
RM-20	EP 2000 (639)
CSS-1	

PRODUCERS	
Chevron (Vancouver, BC)	
	Colasphalt Prime (050)
Husky (Lloydminster, AB; Kamloops, BC) (401)	Husky Oil – EAP-2 (525)
Imperial Oil (ESSO) (Edmonton, AB) (055)	
McAsphalt (811)	EPT McAsphalt (811) Anionic Clean Coat Bond and Cationic Clean Coat Bond McAsphalt (811)
Shell (AB)	

## TACK COATS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RC-30	CSS-1
RM-20	Snap Tac (058)
SS-1 (tack coat only not allowed for use as a primer or for joints)	EP 2000 (639)
Colasphalt Tack (1357)	

PRODUCERS	
Chevron (Vancouver, BC)	Shell (AB)
McAsphalt (050)	Colasphalt Prime (050)
Husky (Lloydminster, AB; Kamloops, BC) (0401)	Husky Oil – EAP-2 (525)
Imperial Oil (ESSO) (Edmonton, AB) (055)	Anionic Clean Coat Bond and Cationic Clean Coat Bond McAsphalt (811) EPT McAsphalt (811)

## TRACKLESS TACK COAT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Clean Bond Coat McAsphalt (811)	Colasphalt Tack (1357)



## EMULSIFIED PENETRATING PRIMERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
EP 2000 (639)	ABT-2 (986)
Husky Oil - EAP-2 (525)	Colasphalt Prime (050)

## FIBRE REINFORCING ADDITIVE

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
FORTA FI FIBRE (1294)	
ACE FIBRE (1303)	

## HOT JOINT SEALING SYSTEMS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TriCor CRF- Restorative Seal (665)	Pavement Joint Adhesive - Crafc0 34524 Crafc0 (1038)

## ASPHALT PAVEMENT / LONGITUDINAL JOINT SEALING SYSTEMS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TriCor CRF- Restorative Seal (665)	

## ASPHALT PAVEMENT REHABILITATION

### REJUVENATORS

#### CONVENTIONAL

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TriCor Cyclogen L (203)	McAsphalt Rejuvenite (059)
TriCor CRF- Restorative Seal (665)	McAsphalt Rap 400 (060)
TriCor Reclamite (203)	TriCor Cyclogen P (948)

#### HOT-IN-PLACE

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TriCor Cyclogen L (203)	TriCor Cyclogen P (948)

## ASPHALT PAVEMENT MAINTENANCE

### CRACK TREATMENT

#### CRACK SEALING SYSTEMS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Denso Reinstatement Tape (547)	Seal –cut (630)
Denso Band (548)	

## EMULSIFIED CRACK SEALANTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
CRF (665)	HF 150P (805)

## RUBBERIZED & ELASTICIZED CRACK SEALANTS

### ENTIRE PROVINCE

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TriCor CP Primer (056)	Hydrotech Sealz 6165 (732)
Bakelite 590-13A (061)	Crafco-Roadsaver 521 and 522 (1038)
Elastopave 2110 (062)	Crafco Roadsaver 221 (1038)
W.R. Meadows Hi-Spec (063)	Crafco Roadsaver 231 (1038)
Shell Cariphalt (064)	Crafco Asphalt Rubber Plus (1038)
Bi-Crackee (433) ( <i>submission under review</i> )	Crafco Polyflex Type 1 and 2 (1038)
McAsphalt MACSEAL 6690-2 (was Beram 195) and MACSEAL 6690-4 (was 195/LM Hot Pour) (594)	Derry American Derry 101 elt Crack Sealant (1109)
Maxwell Products – Elastoflex 410, Elastoflex 71 (1407) (Trial approval till September 2025)	

### LOWER MAINLAND SUNSHINE COAST / VANCOUVER ISLAND

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
<b>NOTE:</b> All products listed for entire Province <i>plus</i> :	
Asphalt Rubber, Type 2 or “MS” (066)	McAsphalt MACSEAL 6690-1 (was Beram 190) (593)
Bakelite 590-13 (061)	Crafco Polyflex Type 2 (1038)
Crafco Asphalt Rubber Plus (Viscous) (1038)	Hydrotech Sealz 6160 <i>Discontinued?</i>
Crafco Roadsaver 211(1038)	W.R. Meadows #164 (068)
Flex-A-Fill (067)	Tremco THC 205 (065)

### PREFABRICATED CRACK SEALERS (MEMBRANES)

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Crack-a-Tac (274)	McAsphalt MACSEAL 6690-2 (was Beram 195) (594)
Tapecoat M860 Road Repair (380)	Petrotac crack suppression membrane (729)
MiraTak (885)	

### TRAFFIC LOOP SEALANT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	Chemque Q-Seal 295 S and M (1110)

### SURFACE TREATMENT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RC- 30 (355)	Rejuvaseal N/100 (164)
SS-1	Reclamite (203)
	CRF (665)

# **ASPHALT PATCHING MIXES PROPRIETARY**

## **ASPHALT PATCHING**

### **ASPHALT BASED - COLD MIX**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Everlasting Patch Mix (080)	Husky Black Mix (401)
WR Meadows Road Repair #1178 (Reg, Fine, and Bulk) (644)	Innovative Asphalt Repair (569)
Pavement Cold Patch (562)	Perma-Patch (151)
QPR 2000 (265)	RC 1100 Cold Pour (331)
Unique Paving Materials Patch Mix (276)	Tapecoat M 860 Road Rep (380)
QPR (High Performance Cold Mix) (265)	Tag 8000 (479)
Target – Cold Patching Asphalt (700)	Crafco Polypatch (1038)
Grandview Blacktop Warm Mix (811)	EZ Street Cold Patch Asphalt (1092)
McAsphalt CCM5 (811)	Pot-Lock H2O (1289)
Black Armour Asphalt Products Inc – Armour Patch HPLB (1323)	Permanent Pothole Repair- Da-Lee Pavement Products (1340)
Aqua Patch Road Materials - Aqua Patch (1400)	

### **ASPHALT BASED - HOT APPLIED**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Crafco Mastic One (1038)	FPT Infrastructure Inc.– SAMIscreed (1405) ( <b>TRIAL USE</b> till June 2025)
Crafco PolyPatch (1038)	

### **ASPHALT BASED - SPRAY**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
WSPE-1 Spray Patch Emulsion (939)	Colasphalt Spray Patch Emulsion (CSPE) (1357)

### **EPOXY BASED**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Sikadur (081)	Miton 514 (138)

### **PORTLAND CEMENT BASED**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Duracal (082)	Ocean Patching (086)
Express Repair (083)	Road Repair 1170,1175,1178 (644)
SIKASET 45 (1133)	

### **SPECIALTY PAVING DEVICES**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Popper (247)	I.D. Locator (447)

## **BRIDGES**

### **ALTERNATIVE COMPOSITE BRIDGE GIRDERS**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	Compo-Girder (647)

### **BRIDGE BEARINGS**

Manufactures/Suppliers in the following categories are considered a part of the engineered solution and require specific analysis/design on a case by case basis for their applications.

### **BRIDGE CONCRETE SEALANTS**

PROVEN PRODUCTS	ACCEPTED PRODUCTS
None at this time	

### **BRIDGE CONCRETE FORM AND SPACING SYSTEMS**

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Total Bond Bar Supports (Chairs) (721)	Sea Forms (657)

### **FIBRE REINFORCED POLYMER WRAP SYSTEMS**

Fibre Reinforced Polymer Wrap Systems engineered with Glass, Carbon, or Aramaide fibres to meet specific requirements/applications are acceptable from the following manufacturers.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Fyfe Co. LLC (1059)	Mitsubishi Chemical - Replark
Sika Canada Inc. (1133)	Mapei FRP (1070) (TRIAL USE expires December 31 <sup>st</sup> 2020)
BASF (365)	Simpson Strong Tie Composite Strengthening System (1079)

## **BRIDGE DECKS**

### **DECK JOINT SYSTEMS**

#### **ASPHALTIC PLUG DECK JOINTS**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Thorma Joint (192)	Infra-Flex APJ Bridge Joint (599)
Oletex XE 300 (561)	Sho-Bond #301 (736)
Crafco Matrix 501 (1307)	

## OTHER JOINT SYSTEMS

For all other joint systems, products are considered part of the engineered solution and require specific analysis and specification on a case-by-case basis. Replacement seals for existing joints shall be compatible with the existing joint system. When necessary, the Structural Engineering group can provide assistance with the selection of appropriate replacement seals.

### EXPANSION JOINT HEADER

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Kwik Bond Polymer- KBP PPC 1121 (1127) <b>TRIAL USE expires April 30<sup>th</sup>, 2021</b>	WaboCrete II Elastomer Concrete (1123)

## GALVANIC ANODES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
<del>BASF MasterProtect 8065 / 8105 / 8150 CP</del> (replaces Emaco CP Intact Galvanic Anodes) (365) — discontinued	Mapei Mapeshield 1 (1070) <b>TRIAL USE expires December 31<sup>st</sup>, 2017</b>
Euclid Sentinel GL (1010)	Vector Galvashield and Galvanode (1273)

## WATERPROOFING for CONCRETE BRIDGE DECKS

Selection of a waterproofing for concrete decks is dependent on project's application and rehabilitation. Application of a Waterproofing Membrane Systems for Concrete Bridge Decks needs to be reviewed with the Regional Bridge Engineer prior to selecting/applying a waterproofing system for a concrete bridge deck.

### PREFABRICATED MEMBRANE SYSTEM FOR CONCRETE DECKS

Application and Installation of a Prefabricated Membrane system must comply with SS 419 specifications and related drawings to fulfill requirements of the complete waterproofing system.

ACCEPTED PRODUCTS	
Protecto Wrap, M-400A (152)	Tuff Tac (954)
Tamko Bridge Guard (636)	Soprema Anti-Rock Bridge Membrane (958)

## HOT RUBBERIZED ASPHALT MEMBRANE SYSTEM FOR CONCRETE DECKS

A Hot Rubberized Asphalt Membrane System supplied by a **single** Hot Rubberized Asphalt Manufacturer for waterproofing a concrete bridge deck consists of a complete package of the following materials:

- Primer;
- Hot Rubberized Asphalt;
- Waterproofing Protection Board;
- Rubber Sheet;

- Fabric Reinforcement; and
- Wick Drain.

Application and Installation of the Hot Rubberized Asphalt Membrane System must comply with Special Provisions Hot Rubberized Asphalt System (future-SS 420) specifications and related drawings to fulfill requirements of the complete waterproofing system.

Supplier/Manufacturer of Hot Rubberized Asphalt Membrane products is responsible to ensure accepted components such as primer; waterproofing protection board; rubber sheet; fabric reinforcement; wick drain; and any other related product for the System is compatible with one another to ensure a resulting waterproofing system is successful.

An Asphalt concrete wearing surface course is placed on top of the protection board to support traffic and protect the Hot Rubberized Asphalt Membrane System.

## **HOT RUBBERIZED ASPHALT MEMBRANE SYSTEMS**

<b>ACCEPTED HOT RUBBERIZED MEMBRANE SYSTEMS</b>	<b>ACCEPTED HOT RUBBERIZED MEMBRANE SYSTEMS</b>
Bakor 790-11 MTO Grade (932)	Crafco Rubberized Waterproofing Membrane (1038)
Bemalastic 1213 BDM (1115)	CCW 500 CDN (1108) (Accepted as equivalent to Bemalastic 1213 BDM)
Ultraseal 3750 ( )	Stop a Drop (954)

## **COMPONENTS FOR – HOT RUBBERIZED ASPHALT MEMBRANE SYSTEM**

### **• PROTECTION BOARD**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
W.R. Meadows Vibraflex MTO Protection Board (087)	IKO "Protectboard" (088)
Bakor Asphalt Protection Board (932)	Soprema Sopraboard (958)

### **• RUBBER SHEET**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Elastosheet 6147 (1085)	Bakor 990-25 (932)
BP47 Elastomeric Reinforcement (089)	CCP Butyl Reinforcing Strip (1038)

### **• FABRIC REINFORCEMENT**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Bakor Polyester fabric (932)	Reemay 2016 (1085)

### **• WICK DRAIN**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Amerdrain 407 (091)	Nudrain Wick Drain (1160)

## **OTHER MEMBRANE SYSTEMS**

### **LIQUID CHEMICALLY CURED – METHYL METHACRYLATE, POLYMER, EPOXY**

Specialty applications require Regional Bridge Engineer's guidance/approval for use and Manufacturer/Suppliers direction/training during contractor's application.

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Sterling Lloyd – Eliminator (172)	Britdex “MDP” (861)
Pro-Poxy type III DOT (1063)	BDM Membrane (1115)
	Matacryl WPM & WS (1212) (TRIAL)

### **LIQUID HOT APPLIED RUBBERIZED ASPHALT**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Stop a Drop (954)	Bakor 790 -11 (932)

### **WATER RESISTING MATERIALS**

<b>ACCEPTED PRODUCTS</b>	
Rosphalt 50 (770) (includes paving aggregate) (note product is an asphalt additive to produce an asphalt pavement with rutting and water resistance characteristics)	

### **DECK CONCRETE SEALANTS**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Capseal-X (Cappar) (092)	Sikagard-100 Hydrozo (Replaces BASF MasterProtect H1000 – replaces Hydrozo Silane 40 VOC) (365)
Sikagard SN 40 Lo-VOC (093)	Isoflex 620 (186)
Chem-Crete Pavix CCC100 (1142)	Iso-Flex 618 (186)
Concresive-AEX 3142SIL-ACT ATS 42 (438)	Miton 400 (147)
Dow Corning 899 (051)	PQ 6100 BM (529)
Duralane (Dural) (094)	<b>SIKA</b> Sikaguard 70 (1133) Sikaguard 71H (1133) Sikaguard 740W (1133) Sikagard SN 100 (1133)
Marathon-40 (Watson) (1192)	
Suretreat (095)	Sikagard-400 Enviroseal (replaces BASF MasterProtect H 400 (replaces Enviroseal 40) (365)
Perma-Seal 444 (096)	Kwik Bond Polymers (1127) Bridge Sealant
DynaCrete PIM+ Type S (615)	Krystol T-1 and T-2(1178) Application to surface of concrete only – not as an admixture additive.
Dynacrete PTS+ Top Sealer (Surface Treatment) (615)	Evonik Protectosil BHN (1222) Evonik Protectosil CIT (1222) Evonik Protectosil Chem-Trete 40 VOC (1222) Evonik Protectosil Aqua-Trete 40 (1222)
Fabrishield 840 (097)	

***See Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 418 – Concrete Bridge Deck Sealants (Silane Surface Treatment of New Portland Cement Concrete).***

## DECK OVERLAY FRICTION SURFACE (EPOXY, CONCRETE)

**TRIAL USE until December 31, 2017 Only**

MoT Bridge acceptance of product's use is required prior to using any of the following products for a deck overlay friction surface application.

ACCEPTED PRODUCTS	
Euclid Flexolith (1010)	Kwik Bond Polyester Polymer Concrete (1127)
Dayton Pro-Poxy Type III DOT Bridge Deck Overlay System (1063)	



# COATING SYSTEMS

The Cooperative Paint Testing Program (CPTP) is a cooperative testing process administered by the Provinces of Alberta and British Columbia to conduct testing on paint coatings to evaluate the products for acceptance on each Province's Product Lists for use as bridge coating systems.

To facilitate recent requests to have new products listed on each Province's CPTP product Lists, CPTP has completed a **second round** of lab testing for bridge coating products and the results are now updated in the following tables.

Manufactures/Suppliers may submit an expression of interest for future CPTP testing by emailing a request to [RPL@gov.bc.ca](mailto:RPL@gov.bc.ca) and must indicate their interest to participate in lab and field testing at the above email address or by sending a letter of notification to the BC Government Ministry of Transportation and Infrastructure PO Box 9859 Stn. Prov. Gov, 4-D 940 Blanshard Street Victoria BC V8W 9T5 by **August 1<sup>st</sup>, 2017** to let CPTP know their company wishes to participate in the **Third Round** of testing. More information can be obtained by calling the RPL contact at 250-387-4360.

**NOTE: Federal Environmental Regulations currently limit volatile organic compounds in paints and coatings. Recognized Coating Systems products will be subject to complying with these regulations.**

## BRIDGE STEEL

### Bridge Steel Coating Colour Guideline per US Federal Specification 595b

	Steel Structure Colour Choices (Top Coat)	US Federal Spec. No. (595b)	DOH Colour	Application		Matching Railing Colour Choices
				Visible Areas	Under Decks	
1	Mid-Grey	16314		O.K.	Yes	4, 6, 10, 11, 12, 13, 15,
2	Light Grey	16515		Yes	Yes	4, 6, 10, 11, 12, 13, 14,
3	Light Blue (Sky)	15187	M-6	Yes	Yes	4, 10, 11, 12, 13, 14, 16
4	Mid-Blue (Lake)	15180		O.K.	Yes	2, 3, 10, 11, 12, 13, 14, 16
5	Dark Blue (Navy)	15065		-No-	O.K.	2, 3, 6, 10, 11, 12, 16
6	Light Green (Grass)	14260		Yes	Yes	2, 6, 8, 10, 11, 12, 13, 14, 16
7	Mid-Green (Leaf)	14193		Yes	Yes	2, 6, 10, 11, 12, 13, 14, 16
8	Dark Green (Forest)	14090		O.K.	Yes	2, 6, 10, 11, 12, 16
9	Mid-Brown	10115		Yes	Yes	2, 3, 6, 10, 11, 12, 13, 14, 16
10	Yellow/Brown	10371		Yes	Yes	2, 3, 6, 13, 14, 16
11	Beige/Brown	12648		Yes	Yes	2, 3, 6, 9, 10, 11, 13, 14, 16
12	Orange (Highways)	12473		-No-	O.K.	2, 3, 6, 11, 12, 14, 16
13	Yellow	13538	T-2	-No-	-No-	N/A
14	Red	11310		-No-	O.K.	2, 3, 6, 10, 11, 12, 16
15	White	17886	B-3, D-1, D-2, D-3, T-3	-No-	-No-	N/A
16	Silver (Aluminum)	17178		Yes.	Yes.	3, 6, 10, 11, 12, 13

**CPTP Recognized Products List for  
BC Transportation and Infrastructure  
Effective July30, 2012, First update April 1<sup>st</sup> 2015 and Second update July 1<sup>st</sup> 2017**

Manufacturer Contact	Generic System Type	System Component				Structure Type B						System Application
		Sealer	Primer	Midcoat	Topcoat	1	2	3	4	5	6	
Carboline 800 979-1226, 778 836-3320	Organic Zn / Epoxy / Polyurethane	---	Carbozinc 859	Carboguard 825	Carbothane 133LH	✓	✓	✓	✓	✓		SF2
Cloverdale Paint Inc. (780) 453-5700, (604)513-3143	Organic Zn / Epoxy / Polyurethane	---	ClovaZinc 3	ClovaMastic 8311	Supershield 25000 Series	✓	✓	✓	✓	✓		SF2
Cloverdale Paint Inc. (780) 453-5700, (604)513-3143	Organic Zn / Epoxy / Polyurethane	---	83003 ClovaZinc 3	8311 ClovaMastic	839 Series Armourshield	✓	✓	✓	✓	✓		SF2
Cloverdale Paint Inc. (780) 453-5700, (604)513-3143	Organic Zn / Epoxy / Polyurethane	---	83007 ClovaZinc 7	8315 ClovaGuard	839 Series Armourshield	✓	✓	✓	✓	✓		SF2
Comex (800)383-8406 (303)618-7628	Organic Zn / Epoxy / Polyurethane		ZR-10 Organic Zinc	E-10 Epoxy	U-5000 W/B Polyurethane	✓	✓	✓	✓	✓		SF2
Comex (800)383-8406 (303)618-7628	Organic Zn / Epoxy / Polyurethane		ZR-10 Organic Zinc	E-10 Epoxy	U-10 Polyurethane	✓	✓	✓	✓	✓		SF2
Devoe Coatings (778) 838-4579	Organic Zn / Epoxy / Polyurethane	---	Cathacoat 315	Bar Rust 231	Devthane 349	✓	✓	✓	✓	✓		SF2
International Paint (604) 988- 7191	Organic Zn / Epoxy / Polyurethane	---	Interzinc 315B	Intergard 475HS	Interthane 870UHS	✓	✓	✓	✓	✓		SF2
PPG Amercoat Canada (760)701-0128	Organic Zn / Epoxy / Polyurethane		Amercoat 68HS	Amercoat 240	Amercoat 450H	✓	✓	✓	✓	✓		SF2
Sherwin Williams (780) 454-7800 (604)253-5424	Organic Zn / Epoxy / Polyurethane	---	Zinc Clad III HS	Macropoxy 646 Fast Cure	Acrolon 218 HS Polyurethane	✓	✓	✓	✓	✓		SF2
Termarust Technologies (888) 279-5497	Organic Zn / Epoxy / Polyurethane	---	Termazinc 1100	Termapoxy 2330	Termathane 2400	✓	✓	✓	✓	✓		SF2
Carboline 800 979-1226, 778 836-3320	Organic Zn / Polyurethane	---	Carbozinc 859	-	Carbothane 133LH	✓	✓	✓	✓	✓		SF3
Cloverdale Paint Inc. (780) 453-5700, (604)513-3143	Organic Zn / Polyurethane	---	83003 ClovaZinc 3	-	839 Series Armourshield	✓	✓	✓	✓	✓		SF3
Cloverdale Paint Inc. (780) 453-5700, (604)513-3143	Organic Zn / Polyurethane	---	83007 ClovaZinc 7	-	839 Series Armourshield	✓	✓	✓	✓	✓		SF3
Sherwin Williams (780) 454-7800 (604)253-5424	Organic Zn / Polyurethane	---	Zinc Clad III HS	-	Fast Clad Urethane II	✓	✓	✓	✓	✓		SF3
Cloverdale Paint Inc. (780) 453-5700, (604)513-3143	Organic Zn / Polysiloxane	---	83003 ClovaZinc 3	-	83170 Series Polysiloxane	✓	✓	✓	✓	✓		SF4
Cloverdale Paint Inc. (780) 453-5700, (604)513-3143	Organic Zn / Polysiloxane	---	83007 ClovaZinc 7	-	83170 Series Polysiloxane	✓	✓	✓	✓	✓		SF4
Cloverdale Paint Inc. (780) 453-5700, (604)513-3143	Organic Zn / Epoxy / Acrylic Polysiloxane	---	ClovaZinc 3	ClovaMastic 83110	Cloverdale SiloxyCoat	✓	✓	✓	✓	✓		SF7
International Paint (604) 988- 7191	Organic Zn / Epoxy / Acrylic Polysiloxane	---	Interzinc 315B	Intergard 475HS	Interfine 878	✓	✓	✓	✓	✓		SF7

PPG Amercoat Canada (760)701-0128	Organic Zn / Epoxy / Polysiloxane	---	Amercoat 68HS	Amercoat 240	PSX 1001		✓	✓				SF7
<b>CPTP Recognized Products List for</b> <b>BC Transportation and Infrastructure</b> <b>Effective July30, 2012, updated April 1<sup>st</sup> 2015 and second update July 1<sup>st</sup> 2017</b>												
Manufacturer Supplier	Generic Coating Type	System Component				Structure Type						System Application
		Sealer	Primer	Midcoat	Topcoat	1	2	3	4	5	6	
Watson Coatings Inc. (314) 521-2000	CaSulphonate Alkyd	---	---	---	AS8301	✓	✓	✓	✓	✓		SF8, SFO3, U1, SFTB
Martin Mathys (506) 653 8555	Waterborne Polymer		Noxyde		Noxyde	✓	✓	✓	✓	✓		SFO2, U3
Sherwin Williams (780) 454-7800 (604)253-5424	MCZn / MCU / MCU		-	Corothane 1 IronOx B	Corothane 1 IronOx A HS	✓	✓	✓	✓	✓		SFO3, U2
Cloverdale Paint Inc. (780) 453-5700, (604)513-3143	Inorganic Zn / Epoxy / Polyurethane		83002 ClovaZinc 2	8311 ClovaMastic	839 Series Armourshield	✓	✓	✓	✓	✓		SS1
Devoe Coatings (778) 838-4579 ( )	Inorganic Zn / Epoxy / Polyurethane		Cathacoat 302HB	Bar Rust 235	Devthane 349	✓	✓	✓	✓	✓		SS1
PPG Amercoat Canada (760)701-0128	Inorganic Zn / Epoxy / Polyurethane		Dimetecote 302H	Amercoat 240	Amercoat 450H	✓	✓	✓	✓	✓		SS1
Sherwin Williams (780) 454-7800 (604)253-5424	Inorganic Zn / Epoxy / Polyurethane		Zinc Clad ii Plus	Macropoxy 646 Fast Cure	Acrolon 218 HS	✓	✓	✓	✓	✓		SS1
Cloverdale Paint Inc. (780) 453-5700, (604)513-3143	Inorganic Zn / Polysiloxane		83002 ClovaZinc 2	-	83170 Series Polysiloxane	✓	✓	✓	✓	✓		SS4
Comex (800)383-8406 (303)618-7628	Inorganic Zn / Polysiloxane		ZR-20 Inorg. Zn	-	X-10 Epoxy Polysiloxane	✓	✓	✓	✓	✓		SS4
PPG Amercoat Canada (760)701-0128	Inorganic Zn / Polysiloxane		Dimetecote 9H	-	PSX 700FD	✓	✓	✓	✓	✓		SS4

## Structure/Application Type Table

Structure Type	Application Type	
<b>B1:</b> Through / Pony Truss	<b>Shop Application</b>	<b>Field Overcoat Application</b>
<b>B2:</b> Deck Truss	SS1 : IOZ-Epoxy-Polyurethane	SFO1 : Water Based Acrylics and Vinyls
<b>B3:</b> Girder/River	SS2 : IOZ-Epoxy-Polysiloxane	SFO2 : Water Based Single Comp. O/C
<b>B4:</b> Grade Separation	SS3 : IOZ-Polyurethane	SFO3 : Solvent Based Single Component
<b>B5:</b> Rigid Frame Grade	SS4 : IOZ-Polysiloxane	SFO4 : Solvent Based Surface Tolerance Epoxy
<b>B6:</b> Partially Submerged Pipe	<b>Field Application</b>	SFO5 : Alkyd No Longer Used
	SF1 : Metallizing-Epoxy-Polyurethane	SFO6 : Misc. Epoxy-Polyurethane
	SF2 : OZ-Epoxy-Polyurethane	SFO7 : Misc. Epoxy-Polysiloxane
	SF3 : OZ-Polyurethane	<b>Touchup Systems</b>
	SF4 : OZ-Polysiloxane	SFTA : Aerosol Rust Inhibitive Primer / Topcoat
	SF5 : Alkyd No Longer Used	SFTB : Brushable Rust Inhibitive Primer / Topcoat
	SF6 : Multi-Component Urethane For Future Use	<b>Penetrating Sealers</b>
	SF7 : OZ-Epoxy -Polysiloxane	SPS : Steel Penetrating Sealers
	SF8 : Calcium Sulphonate Systems for Steel	<b>Steel Railings</b>
	SF9 LG: Low gloss SF2 Systems	SRG : Steel Hot Dip Galvanizing
	SF10 LG: Low gloss SF3 Systems	SRM : Steel Metallizing
	SFIM1 : Coal Tar Epoxy or Equivalent For Future Use	<b>Unique Applications</b>
	SFIM2 : Other Immersion Coatings for Future Use	U1 : Enclosed Spaces-Protected areas
		U2 : Low Temperature High Humidity
		U3 Elastomeric Coatings

## CPTP Recognized Products List

The table above lists all systems that are approved by British Columbia Ministry of Transportation and Infrastructure. Only these products may be used on their respective projects. **Note: CPTP Information updated below July 1<sup>st</sup>, 2017 as indicated in red text.**

The table lists from the left, Manufacturers, Suppliers with contact information, Generic system types, and components of each system approved. On the right are the Structure Types the various coatings are approved for, and the System Application for which each coating is approved. Coatings may be specified simply by using the B1 – B6 structure types, or if a more specific coat choice is desired a System Application type will be specified. A coating system selection table is included below listing all coating systems applications and their respective coatings with notes for use.

### COATING SYSTEM SELECTION TABLE

System Code	Application Area	Structural Environment	Coating System Primer – Midcoat – Topcoat
<b>STRUCTURAL STEEL, SHOP APPLICATION SYSTEMS</b>			
SS1	Steel, Shop 3 coat	Standard New Steel Coating for Moderate to Severe Service	Inorganic zinc, epoxy, polyurethane
SS2	Steel, Shop	Not Used	
SS3	Steel, Shop 2 coat	Moderate to Severe Service	Inorganic zinc, polyurethane
SS4	Steel, Shop 2 coat	Moderate to Severe Service	Inorganic zinc, Polysiloxane
<b>STRUCTURAL STEEL, FIELD APPLICATION SYSTEMS</b>			
SF1	Steel, Field 3 coat	Severe to Extreme Field Application	Metallizing, epoxy, polyurethane
SF2	Steel, Field 3 coat	Standard Field Recoat for Moderate to Severe Service with good gloss	Organic zinc, Epoxy, Polyurethane
SF3	Steel, Field 2 coat	Moderate to Severe Service	Organic zinc, Polyurethane
SF4	Steel, Field 2 coat	Moderate to Severe Service	Organic zinc, Polysiloxane
SF5	Steel, Field 4 coat	No Longer Used	Alkyd on steel
SF6	Steel Field 3 coat	Moderate to Severe Field Application	Multi-Component Urethane Systems
SF7	Steel Field 3 coat	Moderate to Severe Field Applications where good gloss retention is critical	Organic Zinc, Epoxy, Polysiloxane
SF8	Steel Field 2 coat	Moderate to Severe Service	
SFIM1	Steel Field, Immersion	For Future Use	Coal Tar Epoxy or Equivalent
SFIM2	Steel Field Immersion	For Future Use	Epoxy, Polyurethane or Polysiloxane
<b>STRUCTURAL STEEL, FIELD OVERCOAT SYSTEMS</b>			
SFO1	Steel, Field Overcoat	Moderate to severe	Water Based Acrylics and Vinyls
SFO2	Steel, Field Overcoat	Moderate to Severe	Water Based Single Component
SFO3	Steel, Field Overcoat	Moderate to Severe	Solvent Based Single Component
SFO4	Steel, Field Overcoat	Moderate to Severe	Solvent Based Surface Tolerant Epoxy

SFO5	Steel, Field Overcoat	No Longer Used	Alkyd on steel CAN/CGSB-1.59M alkyds
<b>STRUCTURAL STEEL, TOUCHUP SYSTEMS</b>			
SFTA	Steel, Field Touchup Aerosol	For Future Use	Rust Inhibitive Primer / Topcoat
SFTB	Steel, Field Touchup Brushable	Small Damaged Areas, or as a Holding Primer	Rust Inhibitive Primer / Topcoat
<b>PENETRATING SEALERS</b>			
SPS	Steel, Penetrating Sealers	Penetrating Sealers for Joints, Bolts, Rivets etc.	Various Unique Systems, Designed To Be Used With Coating Materials From The Same Manufacturer
<b>PAINT CAULKING MATERIALS</b>			
PCM	Paint Caulking Materials	For Sealing Laps and Small Areas	Assorted
<b>UNIQUE SITUATIONS</b>			
U1	Steel, Unique Products	Moderate	Rust Inhibitive Sealer / Topcoat
U2	Steel, Unique Products	Low Temperature, high humidity	Moisture Cured Organic Zinc / Midcoat / Topcoat
U3	Steel Elastomeric Coatings	For use where substrate requires flexibility	Various
<b>STEEL RAILINGS</b>			
SRG	Steel, Hot Dip Galvanizing	Preferred Treatment for Removable Railings See CAN/CSA –G164-M92 Specification	Hot Dip Galvanizing
SRM	Steel, Metallizing	Primarily for non-removable posts	Zinc – Zinc Aluminum Powder or Wire
<b>WOOD</b>			
WFR	Wood, Railings and Rub Rails	No Longer Used	Primer, Midcoat, Topcoat CAN/CGSB-1.59M alkyds
WFT	Wood Field Touchup	No Longer Used	Primer, Midcoat, Topcoat CAN/CGSB-1.59M alkyds
WF1	Oil Based Sealer – Wood Fencing	No Longer Used	
WF2	Water Based Coating for Wood Surfaces	For Future Use	

**General Notes for Use ALL SYSTEMS:**

- The surface to be coated shall meet SSPC- SP 12/NACE No. 5, NV-2 level immediately prior to coating
- There shall be no inter-mixing of paints/solvents from different manufacturers or between different systems from the same Manufacturer.
- All paints must bear the manufacturer's name and address, batch number, paint type, color code, and mixing and application instructions.

- All paints are subject to inspection and testing as specified by the Ministry Representative.
- Stripe coats shall be the midcoat material in 3 coat systems and the topcoat material in two or one coat systems unless specified otherwise.
- Surface preparation and application shall be as per the Manufacturer's up-to-date Product Data Sheet unless specified otherwise.

## **STRUCTURAL STEEL – SHOP APPLICATION**

### **System – SS1**

#### **INORGANIC ZINC PRIMER, EPOXY MIDCOAT, POLYURETHANE TOPCOAT**

**Ministry Usage:** This system is designed for use in a shop coating environment where the new steel is protected from the weather during coating and curing. The system will provide good service in a severe field environment.

<b>Manufacturer</b>	<b>Contact</b>	<b>Sealer</b>	<b>Primer</b>	<b>Midcoat</b>	<b>Topcoat</b>
Cloverdale Paint Inc.	(780) 453-5700, (604)513-3143	---	83002 ClovaZinc 2	8315 ClovaGuard	839 Series Armourshield
Devoe Coatings	(778) 838-4579		Cathacoat 302HB	Devran 261 QC	Devthane 349
PPG Amercoat Canada	780 701-0128		Dimetcote 302H	Amercoat 240	Amercoat 450H
Sherwin Williams	(780) 454-7800 (604)253-5424		Zinc Clad II Plus	Macropoxy 646 Fast Cure Epoxy	Acrolon 218 HS Polyurethane

#### **Notes for use:**

- Depending on the system chosen, the inorganic zinc primer may require a mist coat to prevent bubbling in the mid-coat material.
- Inorganic Zinc must be both dry and cured before additional coatings are applied.
- Note that any stripe coating must be placed on top of the inorganic zinc.
- While most of the above systems require SSPC-SP 10 surface preparation, SSPC-SP 5 "White Metal" blasting will typically give a longer service life.
- It is preferable to complete the system in the shop prior to shipping.

### **SYSTEM – SS3**

#### **INORGANIC ZINC PRIMER, POLYURETHANE TOPCOAT**

**Ministry Usage:** This system is designed for use in a shop coating environment where the new steel is protected from the weather during coating and curing. The system will provide good service in a moderate to severe field environment.

<b>Manufacturer</b>	<b>Contact</b>	<b>Sealer</b>	<b>Primer</b>	<b>Midcoat</b>	<b>Topcoat</b>
No Current Coatings					

#### **Notes for use:**

- Depending on the system chosen, the inorganic zinc primer may require a mist coat to prevent bubbling in the mid-coat material.
- Inorganic Zinc must be dry and cured before additional coatings are applied.
- A stripe coat is recommended for this system since film build is typically lower than a three coat system.

- Stripe coating with the topcoat material may involve a time window for the subsequent topcoat. See Manufacturer's Data sheet.
- Note that any stripe coating must be placed on top of the inorganic zinc.
- While most of the above systems require SSPC-SP 10 surface preparation, SSPC-SP 5 "White Metal" blasting will typically give a longer service life.
- It is preferable to complete the system in the shop prior to shipping.

## SYSTEM – SS4

### INORGANIC ZINC PRIMER, POLYSILOXANE TOPCOAT

**Ministry Usage:** This system is designed for use in a shop coating environment where the new steel is protected from the weather during coating and curing. The system will provide good service in a moderate to severe field environment.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Cloverdale Paint Inc.	(780) 453-5700, (604) 513-3143	---	83002 ClovaZinc 2		83170 Series Polysiloxane
Comex	(800) 383-8406, (303) 618-7628		ZR-20 Inorganic. Zn		X-10 Epoxy Polysiloxane
PPG Amercoat Canada	780 701-0128		Dimetcote 9H		PSX 700FD

#### Notes for use:

- Depending on the system chosen, the inorganic zinc primer may require a mist coat to prevent bubbling in the midcoat or topcoat material.
- Inorganic Zinc must be both dry and cured before additional coatings are applied.
- A stripe coat is recommended for this system since film build is typically lower than a three-coat system.
- Stripe coating with the topcoat material may involve a time window for the subsequent topcoat. See Manufacturer's Data sheet.
- Note that any stripe coating must be placed on top of the inorganic zinc.
- While most of the above systems require SSPC-SP 10 surface preparation, SSPC-SP 5 "White Metal" blasting will typically give a longer service life.
- It is preferable to complete the system in the shop prior to shipping.



## **STRUCTURAL STEEL – FIELD APPLICATION**

### **SYSTEM – SF1 FOR FUTURE USE**

#### **METALLIZING PRIMER, EPOXY MIDCOAT, POLYURETHANE TOPCOAT**

**Ministry Usage:** This system is designed for use in a field coating environment where extreme exposure areas such as splash zones, fence posts (panels should be hot dip galvanized where removable), bearings, expansion joints and any steel exposed to de-icing chemical solutions are present; or where structures are close to heavy industry.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
For Future Use						

**Notes for use:**

- Previously galvanized railings, fence posts, and panels are to be “Brush-off” cleaned and top-coated with a different colour than the structure, after a wash primer is applied.
- Metallizing can be either of using zinc or zinc:aluminum::85:15 alloy wire thermal spray, flame process or spray and fuse powder process.

### **SYSTEM – SF2**

#### **ORGANIC ZINC PRIMER, EPOXY MIDCOAT, POLYURETHANE TOPCOAT**

**Ministry Usage:** This is the most often used field coating system. The system is designed to be more forgiving of field application during cleaning, coating and curing. **The system will provide good service in a severe field environment. This system may also be shop applied. Service life is close to the SS1 system**

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Carboline	(800) 979-1226, (778) 836-3320	---	Carbozinc 859	Carboguard 825	Carbothane 133LH
Cloverdale Paint Inc.	(780) 453-5700, (604)513-3143		ClovaZinc 3	ClovaMastic 8312	Supershield 25000 Series
Cloverdale Paint Inc.	(780) 453-5700, (604)513-3143	---	83003 ClovaZinc 3	8315 ClovaGuard	839 Series Armourshield
Cloverdale Paint Inc.	(780) 453-5700, (604)513-3143	---	83007 ClovaZinc 7	8315 ClovaGuard	839 Series Armourshield
Comex	(800) 383-8406, (303) 618-7628	---	ZR-10 Organic Zinc	E-10 Epoxy	U-5000 W/B Polyurethane
Comex	(800) 383-8406, (303) 618-7628	---	ZR-10 Organic Zinc	E-10 Epoxy	U-10 Polyurethane
Devoe Coatings	(778) 838-4579		Cathacoat 315	Bar Rust 231	Devthane 349
International Paint	(604) 988- 7191		Interzinc 315B	Intergard 475HS	Interthane 870UHS
PPG Amercoat Canada	(780) 701-0128		Amercoat 68HS	Amercoat 240	Amercoat 450H
Sherwin Williams	(780) 454-7800 (604)253-5424		Zinc Clad III HS	Macropoxy 646 Fast Cure Epoxy	Acrolon 218 HS Polyurethane
Termarust Technologies	(888) 279-5497		Termazinc 1100	Termapoxy 2330	Termathane 2400

**Notes for use:** For low gloss topcoats see SF9LG systems

- Note that any stripe coating must be placed on top of the primer coat and brushed to a strip width of 50 mm (2 inches) minimum as per SS216.
- This system may also be applied in the shop and shipped to the field to keep the number of different coatings on the structure to a minimum so as to simplify future coating rehabilitation.

## SYSTEM – SF3

### ORGANIC ZINC PRIMER, POLYURETHANE TOPCOAT

**Ministry Usage:** This system is designed for use in a field coating environment with moderate to severe exposure areas.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Carboline	800 979-1226, 778 836-3320	---	Carbozinc 859	---	Carbothane 133LH
Cloverdale Paint Inc.	(780) 453-5700, (604)513-3143	---	83003 ClovaZinc 3		839 Series Armourshield
Cloverdale Paint Inc.	(780) 453-5700, (604)513-3143	---	83007 ClovaZinc 7		839 Series Armourshield
Sherwin Williams	(780) 454-7800 (604)253-5424	---	Zinc Clad III HS	---	Fast Clad Urethane II

**Notes for use:**

- A stripe coat is recommended for this system since film build is typically lower than a three coat system.
- Stripe coating with the topcoat material may involve a time window for the subsequent topcoat. See Manufacturer's Data sheet.
- Note that any stripe coating must be placed on top of the primer coat and brushed to a strip width of 50 mm (2 inches) minimum as per SS216.

## SYSTEM – SF4

### ORGANIC ZINC PRIMER, POLYSILOXANE TOPCOAT

**Ministry Usage:** This system is designed for use in a field coating environment with moderate to severe exposure areas. This is the most often used field coating system.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Cloverdale Paint Inc.	(780) 453-5700, (604)513-3143	---	83003 ClovaZinc 3		83170 Series Polysiloxane
Cloverdale Paint Inc.	(780) 453-5700, (604)513-3143	---	83007 ClovaZinc 7		83170 Series Polysiloxane

**Notes for use:**

- A stripe coat is recommended for this system since film build is typically lower than a three coat system.
- Stripe coating with the topcoat material may involve a time window for the subsequent topcoat. See Manufacturer's Data sheet.
- Note that any stripe coating must be placed on top of the primer coat and brushed to a strip width of 50 mm (2 inches) minimum as per SS216.
- For a low gloss product see SF10LG systems

## SYSTEM – SF5 ALKYD NO LONGER USED

## SYSTEM – SF6 FOR FUTURE USE

### MULTI-COMPONENT URETHANE SYSTEMS

**Ministry Usage:** This system is designed for use in a field coating environment in moderate to severe exposure areas.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
For Future Use						

**Notes for use:**

## SYSTEM – SF7

### ORGANIC ZINC, EPOXY, POLYSILOXANE

**Ministry Usage:** This system is useful in severe field applications where good gloss retention is desired.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Cloverdale Paint Inc.	(780) 453-5700, (604)513-3143		ClovaZinc 3	ClovaMastic 83110	Cloverdale SiloxyCoat
International Paint	(604) 988- 7191		Interzinc 315B	Intergard 475HS	Interfine 878
PPG Amercoat Canada	780 701-0128		Amercoat 68HS	Amercoat 240	PSX 1001

**Notes for use:**

- Note that any stripe coating must be placed on top of the primer coat and brushed to a strip width of 50 mm (2 inches) minimum as per SS216.
- This system may also be applied in the shop and shipped to the field to keep the number of different coatings on the structure to a minimum so as to simplify future coating rehabilitation.

## SYSTEM – SF8

### CALCIUM SULPHONATE SYSTEMS FOR STEEL

**Ministry Usage:** This system is designed to use in situations where corrosion protection is desired and where high gloss is not as important. It is not for use in abrasive areas or where dirt retention is a problem.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Watson Coatings Inc.	(314) 521-2000	---	---	---	AS8301

**Notes for use:**

- The penetrating sealer shall be used to penetrate and seal rusted areas and lap joints that cannot be properly cleaned. These are unique situations and Manufacturer's instructions shall be followed unless contradicted by the project specification.
- These products shall be used only with compatible products from the same manufacturer.
- Two full coats of the topcoat are recommended.
- This product is currently under field testing. Other field testing of similar generic products resulted in failing outcomes in the field testing.

## SYSTEM – SF9LG

### LOW GLOSS VERSION OF SF2 ORGANIC ZINC, EPOXY, POLYURETHANE

**Ministry Usage:** This system is designed for use in a field coating environment in moderate to severe exposure areas where low gloss is desired or gloss is not important.

MANUFACTURER	CONTACT	SEAL COAT	PRIMER	STRIPE COAT	MIDCOAT	TOPCOAT
Carboline	800 979-1226, 778 836-3320		Carbozinc 859	Carboguard 825	Carboguard 825	Carbothane 133LH

**Notes for use:**

- The urethane topcoat is low gloss, otherwise it is equivalent to the SF2 systems

## SYSTEM – SF10LG

### LOW GLOSS VERSION OF SF4 SYSTEMS

**Ministry Usage:** This system is designed for use in a field coating environment in moderate to severe exposure areas where low gloss is desired, or gloss is not important.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
Carboline	Carbozinc 859		Carbothane 133LH			Carbothane 133LH

**Notes for use:**

- The urethane topcoat is low gloss, otherwise it is equivalent to the SF4 systems

## SYSTEM – SFIM1 For Future Use

### STRUCTURAL STEEL, FIELD IMMERSION – COAL TAR EPOXY OR EQUIVALENT

**Ministry Usage:** This system is designed for use in a field coating environment in immersion situations.

MANUFACTURER	PRIMER	SEAL COAT	STRIPECOAT	MIDCOAT	TOPCOAT
No Current Coating Systems					

## SYSTEM – SFIM2 STRUCTURAL STEEL, FIELD IMMERSION

### EPOXY PLUS POLYURETHANE OR POLYSILOXANE

**Ministry Usage:** This system is designed for use in a field coating environment in moderate immersion situations.

MANUFACTURER	PRIMER	SEAL COAT	STRIPECOA T	MIDCOAT	TOPCOAT
No Current Coating Systems					

## STRUCTURAL STEEL – FIELD APPLICATION – OVERCOAT

### SYSTEM – SFO1

#### WATER-BASED ACRYLIC OR VINYL SYSTEM

**Ministry Usage:** This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools before repair and top coating. Sealcoat is optional but may be specified for sealing lap joints etc.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
For Future Use						

#### Notes for use:

- These products are designed primarily for overcoating and encapsulating existing coatings.
- A test patch, and subsequent adhesion measurements and observation of compatibility are recommended prior to specifying this type of coating. This reduces the risk of overcoating.
- Manufacturer's instructions are used here because there are a wide range of possibilities that require specific details of cleaning, coating and curing to address each individual circumstance.
- Areas of old coating that are failed should be feathered back and built up to the topcoat level, before overcoating.

### SYSTEM – SFO2

#### WATER- BASED SYSTEM SINGLE COMPONENT

**Ministry Usage:** This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools before repair and top-coating.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Martin Mathys			Noxyde		Noxyde

#### Notes for use:

- These products are designed primarily for overcoating and encapsulating existing coatings.
- A test patch, and subsequent adhesion measurements and observation of compatibility are recommended prior to specifying this type of coating. This reduces the risk of overcoating.

- Manufacturer's instructions are used here because there are a wide range of possibilities that require specific details of cleaning, coating and curing to address each individual circumstance.
- Areas of old coating that are failed should be feathered back and built up to the topcoat level, before overcoating.
- Generally, the material lays better when sprayed, but is capable of being brushed and rolled.
- Finish is matte to semigloss.
- Current materials are waterborne.

## SYSTEM – SFO3

### SOLVENT- BASED SYSTEM SINGLE COMPONENT

**Ministry Usage:** This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools. It may be used in moderate to severe exposures. Lifetime of the coating is a function of the existing coating.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Sherwin Williams	(780) 454-7800 (604)253-5424		Corothane 1 Galvapack 1K	Corothane 1 IronOx B	Corothane 1 IronOx A HS
Watson Coatings Inc.	(314) 521-2000	---	---	---	AS8301

#### Notes for use:

- Use the **Watson product** with caution in areas of high abrasion or in areas where there is pedestrian traffic as the coating is soft and can be damaged. Use of the sealers with these products shall be at the discretion of the Ministry and will normally be stated in the contract documents.
- These products are designed primarily for overcoating and encapsulating existing coatings, but may also find use in Systems U1, and/or U2 as listed.
- A test patch, and subsequent adhesion measurements and observation of compatibility are recommended prior to specifying this type of coating. This testing would typically occur over a winter to stress the applied patch. This reduces the risk of overcoating.
- Manufacturer's instructions are used here unless superseded by the specification because there are a wide range of possibilities that require specific details of cleaning, coating and curing to address each individual circumstance.
- Areas of old coating that are failed should be feathered back and built up to the topcoat level as per SS 216, before overcoating.

## SYSTEM – SFO4

### SOLVENT- BASED SURFACE TOLERANT EPOXY

**Ministry Usage:** This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools. It may be used in moderate to severe exposures.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
For Future Use						
SURFACE PREPARATION    Rusted areas and Delaminated areas: High pressure water wash then SSPC-SP 11, Power Tool Cleaning to Bare Metal.    Undamaged areas high pressure water wash						

#### Notes for use:

## SYSTEM – SFO5 ALKYD ON STEEL NO LONGER USED

## SYSTEM – SFO6

### MISCELLANEOUS EPOXY-POLYURETHANE OVERCOATING SYSTEMS

**Ministry Usage:** This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools. It may be used in moderate to severe exposures.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
No Current Coating Systems						
SURFACE PREPARATION    Rusted areas and Delaminated areas: High pressure water wash then SSPC-SP 11, Power Tool Cleaning to Bare Metal.    Undamaged areas high pressure water wash						

## SYSTEM – SFO7

### MISCELLANEOUS EPOXY-POLYSILOXANE OVERCOATING SYSTEMS

**Ministry Usage:** This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools. It may be used in moderate to severe exposures.

MANUFACTURER	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
No Current Coating Systems						
SURFACE PREPARATION    Rusted areas and Delaminated areas: High pressure water wash then SSPC-SP 11, Power Tool Cleaning to Bare Metal.    Undamaged areas high pressure water wash						

## SYSTEM - -PCM

### STEEL, PAINT CAULKING MATERIALS

**MoT Usage:** These materials are designed to be used immediately under the topcoat material. They are compatible with most paint systems, but a test is recommended to ensure compatibility. They are used primarily to seal joints in steel structures to prevent the ingress of water in laps, splices etc. Manufacturer's instructions are followed for use. They are typically not designed for immersion service.

PROVEN PRODUCTS	ACCEPTED PRODUCTS
Tremco Mono (065)	Sikaflex 1A (188)

**Notes for use:**

- These materials are applied on the midcoat, and then coated with the final topcoat.
- Typically, the top and sides of a plate are sealed, and the bottom is not caulked to enable water to exit the crack if any gets in.
- All materials are subject to inspection and testing as specified by the Ministry Representative.

## SYSTEM – SFTA FOR FUTURE USE

### TOUCH-UP COATING SYSTEM, AEROSOL

**Ministry Usage:** This system is designed for quick touch-up use in a field overcoating situation where the original alkyd system is intact or where loose rust/paint can be removed by hand/power tools. It is designed as a stopgap measure until proper maintenance coating can be scheduled.

COMPANY	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
For Future Use						

## SYSTEM – STFB

### TOUCH-UP COATING SYSTEM, BRUSHABLE

#### SYSTEM STFB SMALL DAMAGED AREAS OR AS A HOLDING PRIMER: BRUSHABLE PRODUCTS

**Ministry Usage:** This system is designed for brush application in a field touchup situation where the original alkyd system is intact and where loose rust/paint can be removed by hand/power tools

COMPANY	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
Cloverdale Paint		ClovaCorr 83183			ClovaCorr 83180	Cloverdale Paint
Termarust Technologies		Termarust 2200LV			TR 2100	Termarust Technologies
Watson Coatings Inc.		Armor-Shield 8201			Armor-Shield AS8301	Watson Coatings Inc.

#### Notes for use:

- Use the Cloverdale, Termarust or Watson products with caution in areas of high abrasion or in areas where there is pedestrian traffic as the coating is soft and can be damaged. Use of the sealers with these products shall be at the discretion of the Ministry and will normally be stated in the contract documents.
- Manufacturer's instructions are used here unless superseded by the specification because there are a wide range of possibilities that require specific details of cleaning, coating and curing to address each individual circumstance.
- Areas of old coating that are failed should be feathered back and built up to the topcoat level as per SS 216, before overcoating.
- These coatings are not designed for use on faying surfaces.
- All coatings will work better on a properly prepared surface ie. High pressure water washed and/or Sandblasted.
- All paints are subject to inspection and testing as specified by the Ministry Representative.



## SYSTEM – SPS

### STEEL, PENETRATING SEALERS

**Ministry Usage:** These products are designed for use in the field to help seal joints, pack rusted areas riveted and bolted area, and generally any area where a product that will wick into any small cracks and crevices to help seal them. These products must be topcoated as most are epoxy based and will not provide good service in exterior sunlight.

MANUFACTURER	PRIMER	SEALCOAT	STRIPECOAT	MIDCOAT	TOPCOAT
Carboline		Rust Bond			As per Manufacturer's Instructions
ICI-Devoe		Preprime 167			
Ameron		Amerlock Sealer			
Cloverdale		Chemotex 5200			
International Paint		Interbond 600			
Micron Camcoat		AS8204			
Termarust		Termarust 2200LV			
Wasser		Prepbond			

#### Notes for use:

- Individual products shall be used only with compatible products from the same manufacturer.
- It is important to apply these products exactly as the Manufacturer states since they do not tolerate over-thickness well.
- When used as part of a coating system, these products shall be applied after the primer coat, before the stripe and midcoats. This is to take greatest advantage of the sacrificial primer which must be in electrical contact with the steel to be most effective.

## SYSTEM – U1

### STEEL, UNIQUE SITUATIONS, ENCLOSED SPACES AND PROTECTED AREAS

MODERATE TO SEVERE CONDITIONS, NON-IMMERSION STEEL ONLY

#### ENCLOSED SPACES AND PROTECTED AREAS

**Ministry Usage:** This system is designed to use in situations where corrosion protection is desired and where high gloss is not as important. It is not for use in abrasive areas or where dirt retention is a problem.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Watson Coatings Inc.	(314) 521-2000	---	---	---	AS8301

**Notes for use:**

- Use the product with caution in areas of high abrasion or in areas where there is pedestrian traffic as the coating is soft and can be easily damaged. Use of the sealers with these products shall be at the discretion of the Ministry and will normally be stated in the contract documents.
- This product is designed primarily for overcoating, encapsulating existing coatings and sealing leaking steel plate joints.
- A test patch, and subsequent adhesion measurements and observation of compatibility are recommended prior to specifying this type of coating. This testing would typically occur over a winter to stress the applied patch. This reduces the risk of overcoating.
- When overcoating, the areas of old coating that are failed should be feathered back and built up to the topcoat level as per SS 216, before overcoating.

## SYSTEM – U2

### LOW TEMPERATURE / HIGH HUMIDITY

**Ministry Usage:** This system is designed to use in situations where low temperature and /or high humidity may preclude the use of other coating systems.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Sherwin Williams	(780) 454-7800 (604)253-5424		Corothane I Galvapak 1K	Corothane 1 IronOx B	Corothane 1 IronOx A HS

**Notes for use:**

- The Sherwin Williams system is moisture cured; the entire can should be used at once to prevent reaction of the coating in the can from contact with atmospheric moisture.
- The Sherwin Williams system above may also be used at normal coating temperatures and humidity. Since it is cured by atmospheric moisture, it shall not be used in areas of low relative humidity, as this may affect cure and/or gloss.

## SYSTEM U3

### ELASTOMERIC COATINGS

**Ministry Usage:** This system is designed to use in situations where a coating with some flexibility is desired; such as sealing cables, bridging small active cracks and similar applications.

Manufacturer	Contact	Sealer	Primer	Midcoat	Topcoat
Martin Mathys			Noxyde		Noxyde

**Notes for use:**

- Generally, the material lays better when sprayed, but is capable of being brushed and rolled.
- Finish is matte to semigloss.
- Current materials are waterborne.

## SYSTEM – SRG

### RAILINGS – HOT DIP GALVANIZING

**Ministry Usage:** This system is designed for use where small parts such as railing can be removed and sent to the galvanizing plant.

STRUCTURE	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
This category has been replaced by CAN/CSA-G164-M92, “Hot Dip Galvanizing of Irregularly Shaped Articles”						

**Notes for use:**

- This is the preferred treatment for rails as it provides a very long life combined with low maintenance.
- The colour is grey.
- If colour is required, then the surface shall be cleaned and surface roughened as per SSPC SP 16, then coated with a compatible coating.
- Sections with closed tubes are not able to be hot dipped without relieving the tubes by drilling holes to let the hot gases escape. This must be designed into the item.
- Both the inside and outside of sections are coated with zinc.
- Defects include inclusions, dross, runs and mottling.

## SYSTEM – SRM

### RAILINGS AND POSTS – METALLIZING

**Ministry Usage:** This system is used primarily to coat steel fence posts that cannot be easily removed from a structure. It can however be used to coat any structural element in place. For elements which can be removed, hot dip galvanizing is the preferred treatment.

STRUCTURE	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
NON-REMOVABLE HANDRAIL SECTIONS						ZINC or Zn/Al Alloy

**Notes for use:**

- Zinc or zinc/aluminum – 85/15 wire or powder shall be used. This material is available from a number of different manufacturers and if metallurgically pure, will provide equivalent service.

- All materials are subject to inspection and testing as specified by the Ministry Representative.
- The surface to be coated shall meet SSPC- SP 12/NACE No. 5, NV-2 level immediately prior to coating.
- If surface preparation standards are maintained, this work may proceed at virtually any temperature.
- This coating may be overcoated to extend lifetime or to provide a colour coat for aesthetic reasons. Any of the SF2 systems without the primer will work well, but since the metalizing is very porous, a thinned mist coat of midcoat material may be necessary to prevent bubbling in the applied coating.

## **FIELD APPLICATION – WOOD**

### **SYSTEM – WFR for Future Use**

#### **WOOD RAILINGS AND RUBRAILS**

**Ministry Usage:** This system is designed for use in a field over coating situation for wooden railings and rub rails where the original alkyd system is intact or loose paint can be removed by hand/power tools.

COMPANY	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
For Future Use						

Notes for use:

### **SYSTEM – WFT for Future Use**

#### **TOUCHUP ON WOOD STRUCTURES**

**Ministry Usage:** This system is designed for use in a field over coating situation where the original alkyd system is intact or where loose paint can be removed by hand/power tools.

COMPANY	PRIMER	SEAL COAT	STRIPE COAT	MIDCOAT	2 <sup>nd</sup> MIDCOAT	TOPCOAT
For Future Use						

Notes for use:

### **SYSTEM WF1 – OIL BASED SEALER – WOOD FENCING No Longer Used**

### **SYSTEM WF2 – WATER BASED COATING FOR WOODEN FENCING For Future Use**

#### **Bridge Steel Coating Colour Guideline** Per US Federal Specification 595b

	Steel Structure Colour Choices (Top Coat)	US Federal Spec. No. (595b)	DOH Colour	Application		Matching Railing Colour Choices
				Visible Areas	Under Decks	
1	Mid-Grey	16314		O.K.	Yes	4, 6, 10, 11, 12, 13, 15,
2	Light Grey	16515		Yes	Yes	4, 6, 10, 11, 12, 13, 14,
3	Light Blue (Sky)	15187	M-6	Yes	Yes	4, 10, 11, 12, 13, 14, 16
4	Mid-Blue (Lake)	15180		O.K.	Yes	2, 3, 10, 11, 12, 13, 14, 16
5	Dark Blue (Navy)	15065		-No-	O.K.	2, 3, 6, 10, 11, 12, 16
6	Light Green (Grass)	14260		Yes	Yes	2, 6, 8, 10, 11, 12, 13, 14, 16

7	Mid-Green (Leaf)	14193		Yes	Yes	2, 6, 10, 11, 12, 13, 14, 16
8	Dark Green (Forest)	14090		O.K.	Yes	2, 6, 10, 11, 12, 16
9	Mid-Brown	10115		Yes	Yes	2, 3, 6, 10, 11, 12, 13, 14, 16
10	Yellow/Brown	10371		Yes	Yes	2, 3, 6, 13, 14, 16
11	Beige/Brown	12648		Yes	Yes	2, 3, 6, 9, 10, 11, 13, 14, 16
12	Orange (Highways)	12473		-No-	O.K.	2, 3, 6, 11, 12, 14, 16
13	Yellow	13538		-No-	-No-	N/A
14	Red	11310		-No-	O.K.	2, 3, 6, 10, 11, 12, 16
15	White	17886	B-3, D-2, D-3, T-2	-No-	-No-	N/A
16	Silver (Aluminum)	17178		Yes.	Yes.	3, 6, 10, 11, 12, 13

## **ADDITIONAL PAINT COATINGS**

### **ZINC-RICH TOUCHUP PAINT AND PRIMERS**

This category identifies zinc rich coatings other than the Coating Systems Listings for use covering added steel surfaces, damaged surfaces of galvanized or metalized steel, and welds requiring a coating to protect/touch up the exposed surface against rust. They may or may not be overcoated depending on the application.

<b>ACCEPTED PRODUCTS</b>	
Zinga	ZRC Cold Galvanizing Repair Compound
ZRC Galvilite	Galvacon GC-243 by Lanco
Canada Metal (Pacific) Ltd. – Seaguard By Zinga (1342)	

#### **Notes for Use:**

- Existing galvanizing must be checked for chromate or another inhibitor contamination on the surface after surface preparation. If present the contamination must be removed prior to overcoating
- Overcoating material must be compatible with the newly painted zinc surface. See the Manufacturer's product data sheets for recommended coating types prior to overcoating.
- Since overcoating produces a mixed (more than one Manufacturer) coating system, some overcoat paint Manufacturers may not recommend use, or guarantee the result of some touchup products. A letter from the overcoat manufacturer stating that the touchup paint and the overcoat paint are compatible is required prior to application.
- These products contain metallic zinc and therefore require frequent stirring to prevent the zinc from settling.

## **DE-ICING, ANTI-ICING, CHEMICALS DUST PALLIATIVES**

**MoT Standard Specifications for Highway Construction Section 991 Calcium Chloride and Sodium Chloride shall apply for**

Calcium Chloride – CGSB 15.1-92

Sodium Chloride – CGSB 15.9-92

Note: CGSB Specifications are obtainable from  
Canadian Government Specification Board  
Ottawa, Ontario K1A 0S5  
<http://www.tpsgc-pwgsc.gc.ca/ongc-cgsb/index-eng.html>

Products listed on the Clear Roads / Pacific Northwest Snow (PNS) fighter's qualified product's list are accepted for use.

<b>ACCEPTED DE-ICING AND ANTI-ICING</b>	<b>ACCEPTED CHEMICALS</b>
Ice-Stop (130)	Calcium Chloride (328)

Freezgard System (552-554)	Calcium Magnesium Acetate (CMA) (098)
Vanscoy (standard and compacted grade) – formerly Nu-Salt (153)	Sodium Formate (099)
Freezgard Magnesium Chloride (552)	Sodium Chloride *Salt (101)
Beet 55 (Geo Melt 55) (1155) Anti-Icing	Envirotech Services – Apex Meltdown (1249)
Eco solutions – Fusion 6040 (1364) (Experimental Category as per ClearRoads Qualified Products List)	Tiger Calcium Road Guard Plus (1268) Tiger Calcium Inc. – Road guard Corrosion Free (1268)

## **DUST PALLIATIVES**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Freezgard Magnesium Chloride (552)	Sodium Lignosulphonate (103)
Calcium Chloride (328)	Milligan Road Dust Suppressant RDS (1122)
Calcium Lignosulphonate (102)	Tiger Calcium Formula 35% (1268)
Brooks-35 NSC Minerals Ltd. (1395)	

### **TRIAL ONLY DUST PALLIATIVE PRODUCTS UNDER REVIEW FOR INFORMATION**

The following Dust Products are listed as trial only on roadways within the Province under Ministry jurisdiction. Results of trial products are to be submitted to [RPL@gov.bc.ca](mailto:RPL@gov.bc.ca) by the end of 2018 for listing evaluation.

Any product without results will be dropped off the Trial Only Products section.

Trial information needs to include the Ministry's Area Manager Contact info where the trial was allowed and took place with their evaluation of the trial.

<b>FOR TRIAL ONLY PRODUCTS</b>	<b>FOR TRIAL ONLY PRODUCTS</b>
DuraBlend (1283) Trial to Dec 2017	

## **DRAINAGE/STORMWATER MANAGEMENT**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
StormFilter (819)	Vortechs (1044)
Interceptor A67 (825)	Atlantis (1084)
Stormtech Chambers (845)	Hydro International Downstream Defender (1101)
EMCO Raintank Systems (852)	Contech Construction – CDS Technologies (1107)
Enviro Liner 6000 (910)	Langley Concrete Group Stormsceptor (1120)
Aco (1004)	Langley Concrete Group Jellyfish (1120)
ACO Drain Systems (1004)	
ACO StormBrixx (1004)	Momentum Environmental Preserver (1275)

## **DRAINAGE PIPES**

Products meeting the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction – Section 303, qualify under this section.

### **CONCRETE PIPES and BOX CULVERTS**

A concrete product under this category must meet CSA A257, ASTM C655, ASTM C76, and/or ASTM C14 requirements for concrete pipe.

Quality Control must meet CSA and/or American Concrete Pipe Association requirements.

Box Culverts must be designed and engineered to meet the structural requirements for site loading and the specific drainage application.

Precast Concrete Boxes under this category must meet ASTM C1433

<b>ACCEPTED MANUFACTURERS</b>	
Langley Concrete Group (1120)	Ocean Pipe (1293)
Leko Precast Ltd (1266)	Tri-Kon Precast Products Ltd. (1397)

## **CORRUGATED STEEL PIPE**

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction – Section 320, qualifies under this section.

<b>ACCEPTED MANUFACTURERS</b>	<b>CSA G 401 -14 Plant Certification required after Aug 1 2017</b>
Armtec (949)	CSA G 401-14 -
Atlantic Industries (1036)	CSA G 401-14 Certification CWB May 20, 2019
Canada Culvert (1156)	CSA G 401-14 -

## **FIBRE REINFORCED DRAINAGE PIPE**

A product must meet the requirements of the Ministry of Transportation and Infrastructure – Standard Specifications for Highway Construction and Bridge Standards.

<b>ACCEPTED MANUFACTURERS</b>	<b>ACCEPTED MANUFACTURERS</b>
FRP Bridge Drain Pipe (1256)	

## **PLASTIC PIPE**

### **P.E. (POLY ETHYLENE)**

**P.E. Plastic Drainage Pipe** – Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, Section 317 under this heading, qualifies under this section. Application of P.E. as specified in Special Provisions.

### **REINFORCED HD POLYETHYLENE**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Boss 2000 (377)	Hancor Sure-Lok HDPE (748)
Weholite (618)	Solen HDPE Pipe (767)
ADS/Hancor N-12 Pipe (632)	Contech DuroMaxx Pipe (821)

### **P.V.C. (POLY VINYL CHLORIDE)**

**PVC Plastic Drainage Pipe** – Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, Section 318

under the same heading, qualifies under this section. Application of PVC as specified in Special Provisions.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Contech A2 Liner Pipe (821)	IPEX Ultra-Rib (944)
PVC Pipe (Flex-Lox) (533) name changed to Royal SDR 35, name changed to Westlake Pipe & Fittings (533)	Royal Cobra Lock System (926) Speciality Application pipe in casing
IPEX Ring-Tite (886)	IPEX Perma-Loc (945) product changed to IPEX ULTRA 2X (945)
Royal KorFlo (926)	

## P.P. (POLY PROPYLENE)

**P.P. Plastic Drainage Pipe** – Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, Draft Section 319 under the same heading, qualifies under this section. At this time, Section 319 is only available as a draft as specified in Special Provisions. Application of P.P. is as specified in Special Provisions.

### Specialty Application

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
ADS Hancor SaniTite HP Sewer Pipe (1182)	

## OTHER DRAINAGE PIPE APPLICATIONS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AGRU Pipes and Liners (207)	Solflo single (724)
Slotted Drain C.S.P. (231)	Solflo Max (724)
	ACO Power Drain S100K (924)

## FITTINGS AND END TREATMENTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Culvert Debris Deflector (187)	PRO-ECO-LTE Structural Headwall (718)
A.B.C. 3 X 3 Brown Water tube (710)	Ages Discharge Tube (829)

## SHAPES, UTILITY SPACERS & FITTINGS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RACI – Spacers (Insulators) (206)	
ADS Flared (Polythene) End Sections (634)	

## OTHER PIPE APPLICATIONS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Royal Pipe PVC Conduit (926) PVC Conduit must meet applicable standards and accepted electrical applications.	



# ELECTRICAL EQUIPMENT – APL0106

Please quote the above number when making a request to the Ministry on this section.

All electrical equipment must be approved by a certification agency that has been recognized by the Standards Council of Canada, except for some Class 2 devices as permitted under BC Electrical Code Regulation, Rule 16-222. [Information Bulletin: Approved Certification Marks for Electrical Products](#) provides some additional information regarding recognized marks and certification bodies.

**Note:** The following is a list of suppliers and their product(s) accepted to supply the Ministry of Transportation and Infrastructure. All products must meet all code requirements.

## GENERAL EQUIPMENT

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Circuit Breakers	Certified product by CSA or SCC accredited agency		
2	Lighting Contactors (2 to 12 pole)	Square D	Class 8903	December 2014
3	Flasher Control Unit	Valid Manufacturing	TFFV12	-
4	Banner Hangers	BannerFlex	BannerFlex D3	April 2014
5	Wire Sentry	Trans Canada Traffic	WS200_305, WS200FB-12	April 2011

## LIGHTING EQUIPMENT: LUMINAIRES AND PHOTO ELECTRIC CELLS

### LED ROADWAY LUMINAIRES – DIRECT REPLACEMENT\*

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	LED Roadway Luminaire – Replaces 150W HPS	American Electric Lighting	ATBM P05 XXXXX R2 4K_5K	March 2019
			ATBM P10 XXXXX R3 4K_5K	
			ATB0 P203 XXXXX R2	February 2022
			ATB0 P203 XXXXX R3	
		Signify	RPS60W20LED740-G1-R2S	July 2023
		Cooper	ARCH-S-PA2-60-740-U-T2R	October 2019
			ARCH-M-PA2-80-740-U-T3	
2	LED Roadway Luminaire – Replaces 250W HPS	American Electric Lighting	L 060M 5 X 2ES 4 X XX 4 X X X NXT-48M-600mA-2ES-4000K	August 2019
			L 060M 5 X 3LM 4 X XX 4 X X X NXT-48M-525mA-3LB-4000K	
		General Electric	ERL1-X-10-B5-40-D-GRAY-R	August 2023
			ERL1-X-11-C5-40-D-GRAY-R	
		American Electric Lighting	ATBM P30 XXXXX R2 4K_5K	March 2019
			ATBM P40 XXXXX R3 4K_5	
			ATB0 P303 XXXXX R2	February 2022
			ATB0 P303 XXXXX R3	
2	LED Roadway Luminaire – Replaces 250W HPS	Signify	RPM100W60LED740-G1-R3M	July 2023
		Cooper	ARCH-M-PA2-90-740-U-T2R; and ARCH-M-PA2-120-740-U-T2R	October 2019
			ARCH-M-PA2-120-740-U-T3	
		LED Roadway Lighting	L 060M 5 X 2ES 8 X XX 4 X X X NXT-72M-700Ma-2ES-4000K	August 2019

			L 060M 5 X 3LM 8 X XX 4 X X X NXT72M-600mA-3LB-4000K	
		General Electric	ERL2-X-16-B5-40-D-GRAY-R	August 2023
			ERL2-X-18-C5-40-D-GRAY-R	

3	LED Roadway Luminaire – Replaces 400W HPS	American Electric Lighting	ATBL E XXXXX R2	September 2017
			ATBL G XXXXX R3	
			ATB0 P454 XXXXX R2	February 2022
			ATB0 P454 XXXXX R3	
		Signify	RPM200W80LED740-G1-R3S	July 2023
		Cooper	ARCH-L-PA3-200-740-U-T2U	October 2019
			ARCH-L-PA3-220-740-U-T3	
		LED Roadway Lighting	LH 60M 5 X 3LM W X XX 4 XX XX	August 2019
		General Electric	ERL2-X-30-C5-40-D-GRAY-R	August 2023

\*The listed products may be used as a replacement for HPS fixtures of the noted wattage.

## PEDESTRIAN TUNNEL LUMINAIRES

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	LED Tunnel Lighting Wall/Ceiling Mount	Valid Manufacturing	TLF-Lxx	November 2020

## PHOTO ELECTRIC CELL AND RECEPTACLES

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Photo Electric Cell Receptacle	American Electric	DUR Series	-
2	Photo Electric Cell (PEC)	Precision Multiple Controls	ECDV-AP-TD	-
		American Electric	DUX Series	August 2018

## MARINE LIGHTING

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Bridge Structure/Pier flood lighting	Holophane	Predator Series*	February 2018
2	Navigation or Hazard marker light	Hazlux	DL010EUNSR5CxETI6	February 2018

\*Note: Colour temperature shall be 4000k or 5000k

## POLE STRUCTURES

### POLES AND BASES

All frangible and breakaway pole structures must meet the crash test requirements of NCHRP Report 350 Test Level 3.

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Steel Traffic Signal, Luminaire, and Sign Poles	Nova Pole International	See note <sup>2</sup>	April 1995
		Valmont West Coast Engineering		January 1995

		Thomas & Betts / Millerbernd Manufacturing		September 2009
2	Frangible Aluminum Bases	Valmont West Coast Engineering	CS-300 <sup>1</sup>	April 2016
		Nova Pole International (Akron)	TB6-9	June 2016
3	Breakaway Base – Luminaire Pole (Type 2-6.5 & 8.0mm 280mm BCD)	Safety Base Ltd.	CS Coupler/ RP2C /Reaction Plate/S3C Shroud	September 2005
		Transpo Pole Break Safe	See note <sup>2</sup>	September 2009
4	Breakaway Base – Luminaire Pole (Type 2 – 11.0 m 12” BCD)	Safety Base Ltd.		
		Transpo Pole Safe		July 2009
5	Breakaway Base – Luminaire Pole (Type 1 or 3 16” BCD)	Safety Base Ltd.		-
		Transpo Pole Safe		July 2009
6	Breakaway Sign Structures	Nova Pole International		April 1995
		West Coast Engineering Ltd.		April 1995
		H & H Welding		April 1995
		Safety Base Ltd.		September 2005
7	Barrier Stands	Nova Pole International		April 1995
		Valmont West Coast Engineering		April 1995
		Brenco Industries		October 1996
		H & H Welding		April 1995
8	Sign Bridge and Cantilever Sign Support Structures	Nova Pole International		-
		Valmont West Coast Engineering		June 1995
9	Highmast Pole	Nova Pole International		January 1997
		Valmont West Coast Engineering		January 1997
		Millerbernd Manufacturing		January 2007
10	Winches, Steel Cables, Head End Assembly and Drive Units for Highmast Poles	CU Phosco Lighting Limited		June 1996
		Millerbernd Manufacturing		January 2007
11	Pole Arm Vibration Damper	Valmont West Coast Engineering	Mitigator TR1	September 2017

<sup>1</sup>The wind load design for the CS 300 frangible aluminum base shall be based on an ultimate moment capacity for the base of 34.8 kN-m. The CS-300 frangible base shall not be used for the 8.5 metre Type 2 shaft in combination with the Type 2C luminaire arm in geographic locations where the 25 year hourly mean wind pressure exceeds 580 Pa. All other standard configurations of Type 2 6.5m and 8.5m shafts and luminaire arms are acceptable in all areas of the province. Hourly mean wind pressures are given in CSA S6-19, Canadian Highway Bridge Design Code – Table A3.1.1.

<sup>2</sup>Specifications as per Ministry requirements. See Electrical Materials and Sign Standards for reference only.

## POWDER COAT APPLICATORS

NO.	PRODUCT	SUPPLIER	APPROVAL DATE
1	Altech Custom Coaters	Burnaby, B.C.	August 1996
2	Hudson Plating	West 5 <sup>th</sup> – Vancouver, BC	August 1996
3	McCain Traffic Supply	Vista, California	August 1996
4	Protek Powder Coating Ltd.	Kelowna, B.C.	August 1996
5	Wesgar Industries	Port Coquitlam, B.C.	August 1996
6	ABC Electro Powdercoating	Port Hope, Ontario	September 1996
7	Automatic Coating Ltd.	Scarborough, Ontario	August 1996
8	Island Powder Coating	Victoria, B.C.	August 1996
9	White Powder Coating	Surrey, BC	January 2013

## POWDER COAT PRODUCTS

This document contains a list of suppliers and their product(s) who have successfully been pre-approved to supply the Ministry of Transportation and Infrastructure.

NO.	PRODUCT	MANUFACTURER
1	Polyester (TGIC)	Protech
2	Polyester (TGIC)	Fuller-O'Brien
3	Polyester (TGIC)	Cardinal

## GALVANIZING COATING (COLD)

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Cold Galvanizing Coating	Aervoe Industries, Inc	Crown 7007	March 2017

## SERVICE EQUIPMENT

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	30A and 100A 120/240 V Single Phase Service Panel	Valid Manufacturing	HWYSP12	December 2010
2	30 A and 100A-120/240 V, Single Phase Service/Distribution Panels	Valid Manufacturing	HWYSP16	May 1994
3	100A-120/240 V, 1 Ø Service Disconnect Panels	Valid Manufacturing	HWYSD	May 1994
		A C Dandy	D-HWYSD	September 2017
4	30A, and 100A 120/240 Single Phase Combination Meter and Service Panel with window	Valid Manufacturing	HWYSMC12-D-3/10W	February 2017
		A C Dandy	D-HWYSMC12-D-3/10W	September 2017
5	100A 120/240 Single Phase External Meter & Service Panel	Valid Manufacturing	HWYSP12-10S-M	February 2017
		A C Dandy	D- HWYSP12-10S-M	September 2017

6	200A 120/240 Single Phase Meter Base & Cabinet, with window	Valid Manufacturing	HWYSMC-D-A01-20W	February 2017
7	Pre-emption Panels	Valid Manufacturing	-	-
8	Distribution Kiosks	Electrotec Industries	-	January 2002
		Valid Manufacturing	-	May 1994
		Code Electric Products Ltd.	-	May 2022

## SIGNAL EQUIPMENT

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Side Mount Kits (Single arm brackets, pole plates, bolts, and washers)	Greenlite Traffic	GEL189	September 1994
2	Spring cushion end hangers	Greenlite Traffic	GEL327N	September 1994
3	Spring cushion end sign hangers	Greenlite Traffic	GEL348	May 1995
4	Spring cushion mid hangers	Greenlite Traffic	GEL307	September 1994
5	Spring cushion mid sign hangers	Greenlite Traffic	GEL338N	May 1995
6	Mid-span plumbizer kit with finials	Greenlite Traffic	GEL378	September 1994
7	Traffic Signal Mounting Bracket	Traffic Hardware + Design	CAN-BRAC	April 2016
8	Mid-span plumbizer kit	Greenlite Traffic	GEL379	May 1995
9	Flasher Luminaires	Greenlite Traffic	GEL525	September 1994
10	Post top adaptors	Greenlite Traffic	GEL142	September 1994
11	Two-way spreaders (Tubular and T-Section) 22"	Greenlite Traffic	GEL410	September 1994
12	Three-way spreaders (Tubular and T-Section) 22"	Greenlite Traffic	GEL440	September 1994
13	Four-way spreaders (Tubular and T-Section) 22"	Greenlite Traffic	GEL460	September 1994
14	Small spacer	Greenlite Traffic	GEL197	September 1994
15	Large spacer	Greenlite Traffic	GEL198	September 1994
16	Finials	Greenlite Traffic	GEL133	September 1994
17	Two-way sign mounting kit	Greenlite Traffic	GEL340	May 1995
18	Span wire hanger and cable entrance	Greenlite Traffic	GEL364	September 1994
19	Pedestrian Pushbuttons	Polara	BDSP-014	November 2004
		Campbell Company	4EVR-MOB	September 2010
		Greenlite Traffic	GEL295	March 2016
20	Signal heads without visors (200 Ø Red, 200 Ø Yellow and 200 Ø Green)	Econolite	EP21DG1NNV (Green)	June 2024
		Swarco McCain	M92890 (Yellow) M93161 (Green)	May 2024
21	Signal head without visors (300 Ø Red, 200 Ø Yellow and 200 Ø Green)	Econolite	CP31DG1NNV (Green)	June 2024
		Swarco McCain	M55831 (Yellow) M97319 (Green)	May 2024
22	Signal head without visors (300 Ø Red, 300 Ø Yellow, 300 Ø Green)	Econolite	TP31DG1NNV (Green)	June 2024
		Swarco McCain	M55831 (Yellow) M93159 (Green)	May 2024
23	Signal head (200 Ø) with no lens and no visor	Econolite	EP10EG1NNV (Green)	June 2024

		Swarco McCain	M55830 (Yellow)	May 2024
24	Signal head (300 Ø) with no lens and no visor	Econolite	TP10EG1NNV (Green)	June 2024
		Swarco McCain	M57219 (Yellow) M97316 (Green)	May 2024
25	Pedestrian heads – 1 section	Econolite	PPSGXNNN (Green)	June 2024
		Swarco McCain	M97287 (poly with cowl visor) M97286 (poly with tunnel visor)	May 2024
		Fortran	P4LU440 – Poly Pedestrian Signal, Yellow, 1 Section, Visor. C/W Square Walk/Don't Walk LED  P4LU540 – Poly Pedestrian Signal, Green, 1 Section, Visor. C/W Square Walk/Don't Walk LED	
26	Pedestrian heads with visors 2 section	Econolite	PPSHXGTP (Green) PPSHXGSP (Green)	June 2024
		Swarco McCain	M97314 (poly with cowl visor) M97315(poly with tunnel visor)	May 2024
		Fortran	P4LO440 - Poly Pedestrian Signal, Yellow, 2 Section, Visor. C/W Square Walk/Don't Walk & Countdown LED  P4LO540 - Poly Pedestrian Signal, Green, 2 Section, Visor. C/W Square Walk/Don't Walk & Countdown LED	
27	300mm Polycarbonate Signal Head (Red, Yellow, Green)	Mobotrex	SG1031C1	August 2017
		Fortran	P Series	November 2011
		Econolite	TP31DG1NNV (Green) TP31DG1CNV (Green) TP31DG1TNV (Green)	September 2018
		Swarco McCain	M55831(Yellow) M97316 (Green)	May 2024
28	200mm Polycarbonate Signal Head (Red, Yellow, Green)	Mobotrex	SG1301C1	August 2017
		Fortran	P Series	November 2011

		Econolite	EP31DG1NNV (Green) EP31DG1CNV (Green) EP31DG1TNV (Green)	September 2018
		Swarco McCain	M92890 (Yellow)	May 2024
29	Audible Pedestrian Signals	Novax	DS102A-S124VDC VB3 Sound System (Internal) VB3 Sound System (External)	November 1994 July 2014 July 2014
30	1 Pair (2 Conductor) No. 18 Shielded Cable	Beldon	9318	-
31	2 Pair No. 18 Shielded Cable	Impulse	181801	April 2000
32	3 Pair No. 18 Shielded Cable	Beldon	9773	October 2000
		Alpha	6024C	October 2000
		Impulse	181803	October 2000
33	4 Pair No. 18 Shielded Cable	Beldon	9388	April 2000
		Impulse	18104	April 2000
34	1.8 m Square ¾" RPVC Preformed Loop c/w 25m of twisted home run conductors (Dwg SP635-2.8.15)	Electromega	17-7306	October 2000
		InterProvincial Traffic	ITS-RPL	October 2000
35	1.8 m Square Flexible PVC Preformed Loop c/w 25m of twisted home run conductors (Dwg SP635-2.8.15)	InterProvincial Traffic	ITS-FPL	October 2000
36	PLH – Preformed Flexible Detector Loops	Reno A&E	PLH-XX-XX-QXX	May 2019
37	200mm Red LED Display	GE Lighting	DR4-RTFB-VLA-027	May 2016
		Dialight	433-1110-003XL15	March 2008
		Leotek	TSL-08R-LX-IL6-A1-P3	September 2005
		Duralight	JXC200-HFR	March 2009
		Excellence Opto	TRV-R08SG-D1T	December 2012
38	300mm Red LED Display	GE Lighting	DR6-RTFB-VLA-027	May 2016
		Dialight	433-1210-003XL15	March 2008
		Leotek	TSL-12R-LX-IL6-A1-P3	September 2005
		Duralight	JXC300-07R	March 2009
		Excellence Opto	TRV-R12SG-D2T	December 2012
39	200mm Yellow LED Display	GE Lighting	DR4-YTFB-VLA-027	May 2016
		Dialight	433-3130-901XL15	March 2008
		Leotek	TSL-08Y-LX-IL6-A1-P3	September 2005
		Duralight	JXC200-HFY02	March 2009
		Excellence Opto	TRV-Y08SG-D1T	December 2012
40	300mm Yellow LED Display	GE Lighting	DR6-YTFB-VLA-027	May 2016
		Dialight	433-3230-901XL15	March 2008



		Leotek	TSL-12Y-LX-IL6-A1-P3	September 2005
		Duralight	JXC300-HFTY03	March 2009
		Excellence Opto	TRV-Y12SG-D1T	December 2012
41	200mm Green LED Display	GE Lighting	DR4-GTFB-VLA-027	May 2016
		Dialight	433-2120-001XL15	March 2008
		Leotek	TSL-08G-LX-IL6-A1-P3	September 2005
		Duralight	JXC200-HFG	March 2009
		Excellence Opto	TRV-G08SG-D1T	December 2012
42	300mm Green LED Display	GE Lighting	DR6-GTFB-VLA-027	May 2016
		Dialight	433-2220-001XL15	March 2008
		Leotek	TSL-12G-LX-IL6-A1-P3	September 2005
		Duralight	JXC300-07G	March 2009
		Excellence Opto	TRV-G12SG-D2T	December 2012
43	300mm Green Arrow LED Display	Excellence Opto	TRA-G12DG-IN	December 2012
		Leotek	TSL-12GA-IL6-L1-P3	December 2012
		Dialight	432-2374-001XOD	August 2000
		GE Lighting	DR6-GTAAN-VLA	August 2018
		Duralight	JXJ300-07G03	December 2021
44	300mm Bi-modal Green/Yellow Left Turn Arrow	Excellence Opto	TRA-B12DD1W3	December 2012
		Leotek	TSL-12BM-LD-A1	September 2005
		Dialight	4306370001	August 2000
		GE Lighting	DR6-ECA6-01A	May 2016
		Duralight	JXJ-300VIYGA	December 2021
45	300mm Sqr. Pedestrian Walk/Don't Walk LED Display	GE Lighting	PS6-CFC4-01A-H3	May 2016
		Leotek Electronic Corp	TP12H-HM	September 2005
		Dialight	430-6772-001X	August 2000
		Excellence Opto	TRP-C30D32F2	December 2012
		Duralight	JXM200-VIHMCAD	July 2022
46	300mm Sqr. Pedestrian Don't Walk Signal	Leotek Electronic Corp	TP12A-EH-C	September 2005
47	300mm Sqr Countdown Pedestrian Signal	GE Lighting	PS6-PFD1-26A-H3	May 2016
		Dialight	430-7773-001X	June 2005
		Excellence Opto Inc.	TRP-O30D32E2	December 2012
		Duralight	JXM-200VIE	December 2021
48	Signal Bags	Trans Canada Traffic Ltd. ITS.	SignalSax	December 2004
49	Uninterruptible Power Supply 650W	Alpha Technologies Corp.	FXM HP 650	October 2021
50	Uninterruptible Power Supply 1000-1100W	Innovative Traffic Solutions	Multilink EP1100	August 2020
		Alpha Technologies Corp	FXM HP 1100	March 2021
51	Uninterruptible Power Supply 2000W	Alpha Technologies Corp.	FXM HP 2000	October 2021
52	Uninterruptible Power Supply Battery (100AH AGM 12V)	Alpha	195XTV	October 2019
		Interstate	DCM0100 DCM0090	October 2019

## UNDERGROUND ELECTRICAL EQUIPMENT

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Large Round Plastic Junction Box Sections	Valmont West Coast Engineering	WCE-JB530-P	April 1994
		Nova	P28-JB-B001-0	June 2010
2	Large Round Steel Junction Box Lids	Valmont West Coast Engineering	WCE-L530-S	April 1994
		Nova	P28-CO-ST-B00 -0	June 2010
3	Large Round Plastic Junction Box Lids	Valmont West Coast Engineering	WCE-L530-P	April 1994
		Nova	P28-CO-PL-B001-0	June 2010
4	Large Round Plastic Junction Box Drain Plates	Valmont West Coast Engineering	WCE-D530-P	April 1994
		Nova	P28-DR-B001-01	June 2010
5	Small Round Plastic Junction Box Sections	Valmont West Coast Engineering	WCE-JB370-P	May 1994
		Nova	P28-JB-A001-01	June 2010
6	Small Round Steel Junction Box Lids	Valmont West Coast Engineering	WCE-L370-S	May 1994
		Nova	P28-CO-ST-A00 -01	June 2010
7	Small Round Plastic Junction Box Lids	Valmont West Coast Engineering	WCE-L370-P	May 1994
		Nova	P28-CO-PL-A001-01	June 2010
8	Small Round Plastic Drain Plates	Valmont West Coast Engineering	WCE-D370-P	May 1994
		Nova	P28-DR-A001-01	June 2010
9	Large Round Steel Junction Box Lids	Valmont West Coast Engineering	WCE-L530-C	June 2011
10	Concrete Junction Box (SP635-1.3.1)	A.E. Concrete Products	MoTH No. 5686	June 1996
		Kon Kast Products	No. 950	June 1996
11	Concrete Vault (SP635-1.3.3)	A.E. Concrete Products	-	June 1996
		Kon Kast Products	-	June 1996
12	24"X36"X36" Junction Box with cover bolt Tier 15-20K with Hex Bolts	Synertech	S2436C36FA S2436HCB0A01	June 2010
13	Cast In Place Aluminum Junction Boxes	Valid Manufacturing	CIPS1XXXXX	July 2016
14	Concrete Service Junction Box	Fraserway Precast	266, 4040, 5686	February 2024

## TRAFFIC CONTROLLER PRODUCTS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Traffic Controller Unit	Peek Traffic	LMD 8000 Rev 8K	January 2004
		Econolite	Cobalt	
2	Conflict Monitor Unit	Peek Traffic	LN12E Rev 18	January 2004
		EDI	SSM12LE (CAN)	January 2004
3	Malfunction Management Unit	EDI	MMU-16	January 2004

4	Loop Detector	Sarasota	GP6C	January 2004
		EDI	ORA2	January 2004
		Reno A&E	222R	January 2004
		Global Traffic Canoga	C922	December 2010
5	K9-Relay 24VDC	Potter & Brumsfield	R10-EIX4-V700	January 2004
6	Fire Signal Controller	Novax Industries Inc.	ELA 515	September 2005
7	Signal UPS Cabinet	Valid Manufacture	KDSA48-30-10385	December 2010
8	Special Crosswalk Controller	Novax	PXO-II	June 2016

## ELECTRONIC SIGNS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	300mm Amber LED Display Open/Closed Sign	Orange Traffic	OCS 2052-12A1	January 2011
2	Dynamic Message Sign (DMS)	ADDCO	Brick (Standard and High Density)	April 2017
3	Wildlife Warning Signs	JSF Technologies	AB-5800 (previously AB-5801-AC)	December 2017
4	LED Chevron Sign	TraffiCalm Systems	SignAlert	October 2020
		Unipart Dorman	SBC9/109	February 2016
		Valid Manufacturing	ICS36316	September 2023
5	Illuminated Pedestrian Crosswalk Signs	Valid Manufacturing	PED3X4L	October 2015
		Greentop	36x48	September 2015
6	Speed Reader Boards (Driver Feedback Sign)	TraffiCalm Systems	M75-12DFB-000X	May 2016
			M75-14DFB-000X	May 2016
			M75-15DFB-000X	May 2016
			M75-18DFB-000X	February 2016
		Unipart Dorman	DF11M/MB	February 2016
		Unipart Dorman	DF15	February 2016
		Traffic Logix	SP-650	April 2017
7	Illuminated Bollards	Valley Traffic Systems	Various	March 2016

## ELECTRONIC DEVICES

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Radar Vehicle Detection Sensor	Wavetronix	SmartSensor HD	February 2016
2	Microwave (Wi-Fi) Radios	Encom	E-Lite Series, Energy Series	March 2016
3	Bluetooth Readers	Traffic Cast	BlueTOAD Spectra	June 2018
4	TransCanada Traffic Inc. DTS-300 – Doppler Traffic Study Module (1317)	TNSense Inc.	DTS-300	January 2019

## WEB CAMERA PRODUCTS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Network Camera, Stationary	Axis Communications	Contact Ministry Electrical ITS Operations at <a href="mailto:ELECITSO@Victoria1.gov.bc.ca">ELECITSO@Victoria1.gov.bc.ca</a> for current models.	-
2	Network Camera, Pan-Tilt-Zoom	Axis Communications Pelco	Contact Ministry Electrical ITS Operations at <a href="mailto:ELECITSO@Victoria1.gov.bc.ca">ELECITSO@Victoria1.gov.bc.ca</a> for current models.	-
3	Network Camera Enclosure, Stationary	Dotworkz Dotworkz Pelco	S-Type-RoF S-Type-Solar EH4718-1	August 2017
4	Network Camera Enclosure, Pan-Tilt-Zoom	Dotworkz Axis Communications E-Series	D2-RoF XXXX-E	August 2017
5	Power Supply	Phoenix Contact Phoenix Contact Omron Omron Phoenix Contact Phoenix Contact Omron Omron	2902998 (12Vdc) 2902999 (12Vdc) S8VK-G03012 (12Vdc) S8VK-G06012 (12Vdc) 2902991 (24Vdc) 2902992 (24Vdc) S8VK-G03024 (24Vdc) S8VK-G06024 (24Vdc)	August 2017
6	Cellular modem	Sierra Wireless	Contact Ministry Electrical ITS Operations at <a href="mailto:ELECITSO@Victoria1.gov.bc.ca">ELECITSO@Victoria1.gov.bc.ca</a> for current models.	-
7	Cellular Antenna (Omni)	Laird Technologies Laird Technologies Laird Technologies	TRA6927M3xxN (Low Gain) TRA6927M3 (Med Gain) TRA8063M3 (High Gain)	August 2017
8	Cellular Antenna (Yagi)	Digital Antenna Top Signal	457-DB (Black) TS220971 (White)	August 2017
9	Land-Line Dial-up Modem	DCB	IP6690	August 2017
10	Coaxial Cable	LMR400, LMR240	Various	August 2017

## SOLAR POWERED CROSSWALK and WARNING FLASHERS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Solar Flashing Beacon	Carmanah Technologies	R247C	September 2005
		JSF Technologies	1400 – 24hr Flashing Beacon	September 2005
2	Solar LED Pedestrian Cross Walk Flashers	Carmanah Technologies	R820	September 2005
		JSF Technologies	AB-2400, AB-3400	September 2005
		Electrotechnics Corp	ELTEC's Pedestrian Crossing System (AC or Solar)	March 2013

		Intelligent Traffic Equipment	LaneLight RRFB-CDNClimate	April 2015
3	Solar Rectangular Rapid Flashing Beacon (RRFB)	Carmanah Technologies	R920	January 2015
			SC315	September 2017
		Intelligent Traffic Equipment	Lane Light RRFB-CDN Climate	April 2015
		JSF Technologies	AB-9200 (previously AB-9207) AB-9400 (previously AB-9407)	June 2016
		Solar Traffic Controls, LLC	RRFB – Solar Powered	February 2017
		TraffiCalm Systems	SA328 – Solar Power	February 2020
		Availed Technologies	Availed AV-400	August 2022
4	Solar Controller for R920 RRFB	Carmanah Technologies	SC315 (70121, 70122, 70123, 70124)	January 2015
5	Solar Flashing Beacon	AvaiLEDTechnologies Corp.	AV-240 Series	February 2020

## AC POWERED CROSSWALK and WARNING FLASHERS

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Rectangular Rapid Flashing Beacon (RRFB)	Carmanah Technologies	SC315	September 2017
		JSF Technologies	AB9200/AB9400	February 2016
		Intelligent Traffic Equipment	Lane Light RRFB-CDN Climate	April 2015
		Solar Traffic Controls, LLC	RRFB – AC Powered	February 2017
		TraffiCalm Systems	SA328 – AC Powered	February 2020

## CONCRETE BASES

**Note:** See Section 635 of the Ministry Standard Specifications for Highway Construction for concrete base specifications. Drawings SP-635 1.1.1 to SP-635 1.1.47 detail concrete base fabrication, implementation, and installation. Clause 635.07 provides written details and required plant certifications. Confirmation of compliance with these specifications to be provided as/when requested by the Ministry.

NO.	PRODUCT	MANUFACTURER	MODEL NO.	APPROVAL DATE
1	Ministry standard precast concrete bases (electrical)	A & E Concrete	A, B, C, CM, D1, D2, D3, E1, E2, E3, F1, F2, F3, S1, S2, S3, L1, L2, L3, M1, M2, H1, H2  See SP635-1.1.1 to SP635-1.1.47 for details	April 2019
2		Central Cariboo Precast		April 2019
3		Galcon Precast Ltd.		April 2019
4		Hyland Precast		April 2019
5		Kee Bee Services		April 2019
6		MacKay Precast		April 2019
7		Tri-Kon Precast		April 2019
8		Kon-Kast		April 2019
9		Leko Precast Ltd		June 2021

10		Kemp Concrete Products		May 2022
11		Fraserway Prekast Ltd.		May 2022
12		Langley Concrete Group		May 2022

## **EPOXY PRODUCTS**

### **GENERAL**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Miton 223 (141)	Pro-Poxy 204 – Unitex (1063)
Miton 227 (143)	<del>BASF – MasterEmaco ADH 1090 RS (replaces Concrecive 1090 (438) discontinued</del>
Miton 514 (138)	Red Head Epcon S7 and A7+ (559)
Ulcan Hanner Cap (619)	SpecChem SpecPoxy 1000 (1265)
Pro-Proxy 300 Fast – Unitex (609)	SpecChem SpecPoxy 2000 (1265)
Pro-Poxy 200 – Unitex (1063)	SpecChem SpecPoxy 3000 (1265)
Pro-Poxy 500 – Unitex (1063)	SpecChem SpecPoxy 3000 FS (1265)
Mapei Planibond SBA (1070)	

### **CRACK INJECTION**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
<del>BASF MasterEmaco ADH 327 RS (replaces Concrecive 1446) (438) discontinued</del>	Sho-bond #101 (736)
<del>BASF MasterInject 1380 (replaces Concrecive 1380) (438) discontinued</del>	Pro-Poxy 50 – Unitex (1063)
Sika Sikadur 31 HI MOD Gel (081)	Pro-Poxy 100– Unitex (1063)
Sika Sikadur 33 (081)	
Sikadur 35 Hi-Mod LV (081)	Simpson Strong Tie – ETI-LV and ETI-GV (1079)
Sikadur 524 (081)	
Sikadur 55 SLV (081)	

### **EPOXY ASPHALT-CONCRETE APPLICATION**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Sikadur 32 Hi-Mod Epoxy Adhesive (081)	

### **EPOXY SURFACE TREATMENT**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>

## **EROSION CONTROL, SEDIMENT CONTROL and REVEGETATION**

See Standard Specifications Section 757 Re-Vegetation Seeding for Hydro-Seeding requirements.

See Standard Specifications Section 165 for Erosion and Sediment control requirements.

## ROLLED EROSION CONTROL PRODUCTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
North American Green (Various) (107) Hydramax hydraulic erosion control, Rollmax, rolled erosion control, Tensar Erosion control systems, Triton coastal and waterways systems, TMax	Western Excelsior ECB (890) Layfield geosynthetics and industrial fabrics Ltd. – Erosion Control Blankets SR-1, SS-2, CS-3, CC-4, PP5-Xtreme
Multimat 100 Geogrid (226)	Solmax Landlock TRM (891)
Foreshore Grout Mattress (373)	Scourstop (975)
Profile Products Made to degrade (459)	Profile Products (1078) – Futerra 7020, Futerra TRM, (not within the wetted perimeter);
Geocoir/Dekowe (487)	Excelsior Erosion Products – Excel, EStaple, CurlexI, CurlexII, CurlexIII, Recyclex, & AEC Straw single and Double Net, AEC Premier Straw/Coconut (1078)
Georidge (848)	EcoMatrix (1078)
Supergro (843)	Flexterra (1078)
MacMat N 10, & 20 (880 & 881)	Layfield East Coast Erosion Blankets (1117) – ECSC-2; ECSC-2B; ECS-2B; ECC-3; ECC-2; ECC-2B. (full synthetic blankets not accepted)
Erosion Control Blankets (1152) – S32BD; S31; S32; C32BD; C32; SC32BD; SC32; PC42; PS 42; P42 TRM	Bon Terra (Various) (106)
Softstop – Hemp fibre erosion control blanket (1306) Terrafibre – Hemp erosion control blanket – Summit Fibre (1385) Maccaferri Canada Ltd. - Macmat R Turf Reinforcement Mat (1381)	American Excelsior Erosion Products (1088) – EStaple, All Curlex Products; All Recyclex, & AEC Straw Single and Double Net Products, All AEC Premier Straw/Coconut products. TriNet™ Coconut and TriNet™ Straw/Coconut (1335) – (Trial use till December 2026) TriNet® Curlex® (1335) – (Trial use till December 2026) TriNet® Recyclex® (1335) – (Trial use till December 2026)
BMP Supplies Inc. (1128) Standard: BMP Double Net – Straw (BMP-SDNS) BMP Double Net – Straw Coconut (BMP-SDNSC) BMP Double Net – Coconut (BMP-SDNC) BMP Single Net – Straw (BMP-SSNS)  <b>Note: Above BMP products trial use till January 2027.</b>  Biodegradable (Jute): BMP Double Net – Straw (BMP-BDNS) BMP Double Net – Straw Coconut (BMP-BDNSC) BMP Double Net – Coconut (BMP – BDNC)	

**Note:** Products accepted as trial can be used on full scale projects

## HYDRAULIC EROSION CONTROL PRODUCTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Ecoaegis (Bonded Fiber) (731)	Hydrotech (732) <b>not active subject to deletion</b>
Spra-mulch (149) <b>not active subject to deletion</b>	EcoFibre Plus Tackifer - Terra Wood with Tacking Agent 3 Conwed 1000 (731) and Ecofibre (1078)
Mat Fiber (150) <b>not active subject to deletion</b>	Earthguard Fiber Matrix (1143)
Soil guard (Bonded Fibre Matrix System) (440)	Ranier Fiber and Tac (1171)
American Excelsior Erosion Products (1088) – Bindex wood WT; Bindex Wood; Bindex BFM.	Profile Products (1078) Coco Flex ET-FGM; Flexterra HP–FGM HP; Ecoflex: Promatrix and Ecomatrix (Engineered Fiber Matrix).
Terrafix MulchMax 101 wood (1161)	Terrafix MulchMax 200 and MulchMax Ultra (1161)
HydraCX <sup>2</sup> Extreme Slope Matrix (719)	Profile Products (1237) Engineered Fiber Matrix EFM
EcoFibre Plus Tackifer -Terra Wood with Tacking Agent 3 - Conwed 2000 (1078)	Profile Products LLC - HydroStraw® Guar Plus (1378) (Trial use till December 2026) Profile Products LLC - HydroStraw BFM (1378) (Trial use till December 2026) Profile Products LLC - HydroStraw All In One BFM (1378) (Trial use till December 2026)
Fiber Marketing International Inc. (1413) Rainier - Wood Fiber, Rainier - Bonded Fiber Matrix (BFM), Rainier - Stabilized Mulch Matrix (SMM), Rainier - Supreme Fiber Reinforced Matrix (FRM) (all above Rainier products - Trial use till September 2026)	

## PNEUMATIC EROSION CONTROL PRODUCTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Denbow EcoBlanket (1190)	

## TACKIFIERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
J-Tac (155)	Hydro Straw Fiber RX (1274)
M-Binder (156)	

## FLEXIBLE GROWTH MEDIUM/SOIL AMENDMENTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Verdyol – HyroGold, Biotic Earth HGM, Biotic earth Black, Biotic Earth BFM (1152)	Profile – Proganics Biotic Soil Media BSM (1237)

## SEDIMENT CONTROL APPLICATIONS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Beltech Silt Fence (489)	Layfield SF100 & SF124 (987)
Layfield WBSF (892)	Willacoochee Ind Fabrics WINFAB Silt Fence (1251)
Denbow FilterSoxx (1190)	AGES Premium Silt Fence (904)



Denbow EcoBerm (1190)	BMP Supplies Inc. (1128) BMP-RDSTW – Rapid Degradable Straw Wattle BMP-BSTW – Biodegradable (Burlap) Straw Wattle (Trial use till April 2027)

## DITCH BLOCK/BARRIERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Aqua Dam (333)	

## EROSION – GENERAL

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
A-Jax Block (111)	BMP Spring Berm (1128)
Trilock Erosion Control (686)	Titan Environmental Containment - Concrete Canvas (1131) (possible applications for abrasion in culverts)
Propex Armormax (719)	Nilex Smart Ditch (1160) TRIAL USE only Dec 31, 2017
Enviroberm (691)	Flexamat (1238)
Gabion Mat PVC/ PoliMac® (882)	Cable Concrete (1255)
Modular Gabions (1028)	Deltalok (791) <b>Discontinued - Replaced with</b> Flex MSE (1236)
Terrafix Flexicrete (719)	Synhetex- Hydrotex Articulating Concrete Block (1396) - (Trial use till December 2026)

## LANDSCAPING PRODUCTS

See Standard Specifications 751, 754, 757, 766 and 769 for landscaping requirements

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Interlocking Concrete Pavers (074)	Lava Rock (284)
Weed Barrier Geo Textile (197)	Deeprout Barrier (468)
Commercial Tree Ties (282)	Netlon Advanced Turf (722)
Stamped Concrete Finish (Bomanite) (283)	Driwater (725)

## FASTENERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Strapbinder (627)	

## FENCING

See Standard Specifications Sections 700 Wildlife Exclusion Fencing and SS741 Fence Construction. Other fencing can be specified on a project by project basis for products applicable to the project.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS

# GEOTECHNICAL

## GEOSYNTHETICS

Geotextiles Woven and Nonwoven have specific material properties and applications for separation, strength, filtering, and stabilizing road base.

Selection for a particular Geotextile would be specified in Special Provisions for their application and use meeting required ASTM standards and AASHTO Geotextile Specifications Testing AASHTO M 288.

Testing laboratories for Geosynthetics are found on the web site as follows: <http://www.geosynthetic-institute.org/gai/lab.htm>.

Quality assurance testing on Geosynthetics may be requested from time to time by the Ministry to verify product's specifications to meet requirements.

### GEOTEXTILES - WOVEN

Woven Geotextiles are to be tested in accordance with ASTM D4632, ASTM D4833, ASTM D3786, ASTM D6241, ASTM D4533, ASTM D4751, ASTM D4491 and ASTM D4355.

Mullen Burst ASTM D3786 and Puncture Strength ASTM D4833 are no longer recognized by the ASTM Committee D35. Puncture Strength ASTM D4833 has been replaced with the Static (CBR) Puncture ASTM D6241.

Other tests requirements are as specified in the work.

Test results required upon request and test results acceptance are subject to work requirements.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Geolon HP Series (883)	AIL90 (1036); AIL100 (1036); AIL120 (1036) <b>Note: Product Listing subject to confirmation products meet TenCate Mirafi specifications - Renew end of 2017</b>
Webtech (826)	Skaps Geotextiles (1146)
Ages HS (828)	Texel Geotextiles (1223)
Terrafox Geotex Geosynthetics (979)	Propex Geotextiles (1228)
Layfield Geotextiles (987)	TenCate Mirafi Geotextiles (1229)
Maccaferri MACTEX Geotextiles (1008)	Willacoochee Ind Fabrics WINFAB AB (1251)
Geomods Geosynthetic Solutions Ltd. (1419) (Trial use till June 2027)	

### GEOTEXTILES – NONWOVEN

Non Woven Geotextiles are to be tested in accordance with ASTM D4632, ASTM D6241, ASTM D4533, ASTM D4751, ASTM D4491 and ASTM D4355.

Mullen Burst ASTM D3786 and Puncture Strength ASTM D4833 are no longer recognized by the ASTM D35. Puncture Strength ASTM D4833 has been replaced with the Static (CBR) Puncture ASTM D6241.

Other tests requirements are as specified in the work.

Test results required upon request and test results acceptance are subject to work requirements.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Webtech (826)	Texel Geotextiles (1223)
Ages HS (828)	Propex Geotextiles (1228)

Terrafix Geotex Geosynthetics (979)	TenCate Mirafi Geotextiles (1229)
Layfield Geotextiles (987)	Willacoochee Ind Fabrics WINFAB (1251)
Maccaferri MACTEX Geotextiles (1008)	Skaps Geotextiles (1146)
Geomods Geosynthetic Solutions Ltd. (1419) (Trial use till June 2027)	

## GEOGRIDS (UNIAXIAL- UX)

Geogrids products applications vary with conditions and requirements and are to be tested in accordance with ASTM Test requirements.

Other tests requirements are as specified in the work.

Test results required upon request and test results acceptance are subject to work requirements.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
<b>Tensar</b> Tensar Ux series (719)	<b>Maccaferri</b> Maccaferri MacGrid (813) Paralink / Paragrid
<b>Fortrac Grids</b> Carthage Mills GX Series (870)	<b>Tenax</b>
	Synteen SF Series Uniaxial Geogrids (719)
<b>Titan GeoGrids (1193)</b>	Layfield Geogrids (987)
<b>Mirafi Tencate</b> Mirafi Tencate XT Series (714)	Strata Systems Inc. - Strata SG Gridline, Strata SGU gridline (1387)
Geomods Geosynthetic Solutions Ltd. (1419) (Trial use till June 2027)	

## GEOGRIDS (BIAXIAL - BX)

Geo Grids products applications vary with conditions and requirements and are to be tested in accordance with ASTM Test requirements ASTM D4759-02, ASTM D6637-01, ASTM D5732-01, ASTM D6637-01, and ASTM D4355-05.

Other tests requirements are as specified in the work.

Test results required upon request and test results acceptance are subject to work requirements.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
<b>Tensar</b> Tensar BX Geogrids (662) Tensar Bx Series (719) Tensar Easygrid (1350) Tensar Earthlock BX Geogrids Series (1372) – (Trial use till December 2026)	<b>Mirafi Tencate</b> Miramesh Biaxial Geosynthetic (897) (surface erosion over steepened slopes) Mirafi BXG biaxial geogrids (1322)
<b>Fortrac Grids</b> Fortrac 20/13-20 (603) Fortrac 110/30-20 (607) Fortrac 35/20-20 (604) Fortrac 55/30-20 (605) Fortrac 80/30-20 (606)	<b>Maccaferri</b> Maccaferri MacGrid (813) Maccaferri MacGrid EG20S/EG30S Maccaferri MacGrid WG/KG Series
<b>Titan GeoGrids</b> Titan GeoGrids TE-BX-15/20/25/30PP (1193) Titan GeoGrids TE Type 1 and Type 2 (1193)	<b>Tenax</b> Tenax MS 220/330 Series (689) Tenax TT Series (894)
<b>Checkmate</b>	

	Strata Geogrid Products (901)
Synteen SF Series Biaxial Geogrids (719)	Combi Grid (929)
E'Grid (889)	Secugrid (940)
Pacific Geosource – Alliance BX Type 1 and Type 2 geogrids (1336) BOSTD SX 1515, 2020, 3030 (1336)	Layfield Geogrids (987)
	Terrafix Biaxial Geogrids BX Series (1086)

## GEOGRIDS (TRIAXIAL - TX)

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Tensar Triax Geogrid (719)	Terrafix Geogrids – Triaxial - TTX130s, TTX160, TTX-160G and TTX7 (1086)

## GEOGRIDS (MULTIAXIAL)

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Tensar Multiaxial Geogrids sold as InterAx™ and H-Series™ (1372)	

## GEOGRIDS COMPOSITES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Titan TE-BXC (18and 30) Bi-Axial Geogrid Composite (1193)	Terrafix Geogrids – Composite - TGC3030 and TGC4040 (1086)

## GEOGRIDS-PAVEMENTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Tensar Glassgrid	PaveGrid FGC Series (898)
MiraPave (994)	<del>Checkmate Roadgrid (905)</del> discontinued
PaveGrid FG Series (896)	Huesker Ha Telit C 40/17 (1139)
TiTan Bi-Axial (TE-FGP and TEFGC FiberGlass Geogrids (1193)	

## GEOMEMBRANES

*Note: This category is currently under revision*

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS

## CAPILLARY REINFORCEMENT SYSTEMS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
TenCate Geotextiles Mirafi H2Ri (1229)	Terrafix – Terratex DriBase (1086) (Trial use till December 2026)

## GEODRAINS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
ADS Advan edge/HDPE (633)	Delta Drain LD Series (893)
Miradrain 5000, 6000 and 9000 (136)	Drain Tube (1159)
Miradrain G100N; G200N; G300N Series (136)	Terrafix WD-15 with J-Drain 400 (1160)
	Terrafix DN50-2 with J-Drain 300 (1160)
Tendrain (688)	JD Drain 300 and 400 (1160)
	TenCate Geotextiles Mirafi H2Ri (1229)

## GEOCOMPOSITES

*Note: This category is currently under revision*

## GEOFOAM

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Geospec (855)	Plasti-Fab (799)

## CELLULAR CONFINEMENT SYSTEMS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Terrafix – Envirogrid (1319)	Geoweb (224)
Neoloy Tough Cell® -Paradox Access Solutions (1382) (Trial use till December 2026)	

## ENVIRONMENTAL LINERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Layfield Plastics 30mil PVC sheet (987)	Coletanche Geomembrane (1126)
Bentofix (838)	Siplast Ternap (1243)

# **HIGHWAY SAFETY DEVICES**

**NOTE: For the following Highway Safety Devices -**

**New product listings and applications need Manual on Safety Hardware (MASH) 2016 certification or eligibility.**

**All new and replacement installations must meet MASH 2016 certifications or the most recent version thereof. Where MASH tested products are not available, products meeting the certification requirements of National Co-operative Highway Research (NCHRP) Report 350 may be acceptable.**

**Products meeting the certification requirements of NCHRP Report 350 are listed as transitional products (retrofit and maintenance repairs) as products move towards meeting MASH requirements.**

**Reference:**

**FHWA website identifies products with MASH eligibility as follows:**

[https://safety.fhwa.dot.gov/roadway\\_dept/countermeasures/reduce\\_crash\\_severity/](https://safety.fhwa.dot.gov/roadway_dept/countermeasures/reduce_crash_severity/)

## **BREAKAWAY DEVICES**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Transpo Break Safe (1005)	Dent Breakaway Bolt (966)
UBS Industries – Atkore Structural Sign System MASSH 400 sign support (1278)	Dent Sign Post Fuse Plate (993) (For use with breakaway sign supports)
Barricades and Signs - Universal Breakaway Coupler BC3 (1369) ((Trial use till December 2027)	

## **BARRIER SIGN CONNECTIONS**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
	Adapt- Eze Safety Products CBM-1000 (1157)

# **HIGHWAY TRAFFIC BARRIERS**

## **CABLE BARRIERS**

**NOTE: The following products have met the certification requirements of the National Co-operative Highway Research (NCHRP) Report 350, Test Level 3 (4 wire systems) for Ministry roadside applications and/or Test Level 4 (4 wire systems) for Ministry median applications as such are acceptable for use by the Ministry. See Tech Circular T-02-13 “Cable Barrier”.**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Safence (965)	Gibraltar Cable Barrier System (955)
Brifen Wire Rope Safety Fence (1097)	Nu-Cable (1106)
CASS-TL3 (1026)	CASS S3 MASH TL-3 (1026)

## **CONCRETE BARRIER**

**Any Concrete Barrier product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, of Section 941 – Precast Reinforced Concrete Barrier, qualifies under this section.**

**Note: The following List of Manufactures and Suppliers meeting Ministry Specifications are found procured through the Procurement Services Branch and listed below as meeting QA/QC requirements of Section 941 on an annual basis during the current standing procurement offer term.**

## LIST MANUFACTURERS AND SUPPLIERS

<b>ACCEPTED MANUFACTURER/SUPPLIER</b> For current term up to 2020	<b>ACCEPTED QC/QA PLAN</b> For Concrete Barrier meeting SS 941
Coast Range Concrete	2018
Eagle West Crane and Rigging	2018
Grosso Precast and Crane Service	2018
Kemp Concrete Products	2018
Kon Kast Products	2018
Skeena Concrete Products	2018
Sure Span Structures	2018
Tri Kon Precast Structures	2018
Lock Block Ltd.	2023

## SPECIALTY APPLICATIONS

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Visi-Barrier (1005) (special engineered use only like Bridge Parapet or Tunnels)	

## STEEL TRAFFIC BARRIERS; STEEL POST & WOOD POST

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, of Section 312 - Steel Traffic Barriers & Wood Posts, qualifies under this section.

Products require FHWA approval and passing NCRHP TL-3 and TL-4 testing.

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
NU-Guard 31 Roadside Guardrail System (1156)	SRT-M10 Slotted Rail Terminal (1305)
Retro-Rail Guardrail Retrofit (1305)	SoftStop MASH – end terminal system TL-3 (1305)

## WATER FILLED TRAFFIC BARRIERS

Products are no longer listed in this category. See Highway Safety Devices – Barriers – Water Filled for additional information.

<b>ACCEPTED PRODUCTS</b>	
Yodock Barrier System (341) – Temporary listing as this is a construction product	

## GLARE SCREENS

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Carsonite (109)	SafeHit Glare Screen (728)
Glare-Gaard (519)	Glarescreen GS Series (1213)
Screen-Safe Glare Screen Safety Shield (1369)	Plasticade Glare Screen (1231)

## IMPACT ATTENUATORS

**NOTE: The following products have met the certification requirements of the Manual for Assessing Safety Hardware (MASH), Test Level 3 and as such are acceptable for use by the Ministry.**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
SCI100GM (0079) SMA Hercules Crash Cushion - MASH Test Level 3 (1365) MKST Guardrail End Terminal – 50' - (1366)* MFLEAT Flared Guardrail End Terminal – 39'7" (1367)* React- M MASH impact attenuator (1369) Ermes MASH 2016 Impact Attenuator (1386) Hercules Wide TL-3 (1386)	Quad Guard M10 (1005) Quad Guard Elite M10 (1005) MKST Guardrail End Terminal – 50' (1366) MFLEAT Flared Guardrail End Terminal – 39'7" (1367) Universal TAU-M™ Parallel Re-directive, Non-Gating - Crash Cushion (1361) Traffix Delta Crash Cushion (1369)

**NOTE: The following products have met the certification requirements of the Manual for Assessing Safety Hardware (MASH), Test Level 2 and as such are acceptable for use by the Ministry.**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Hercules SMA MASH 2016 Test Level 2 Crash Cushion (1365)	QuadGuard M10 (TL-2) (1369) Universal TAU-M Crash Cushion (TL-2) (1369)

**NOTE: The following products have met the certification requirements of the National Co-operative Highway Research (NCHRP) Report 350, Test Level 3 and as such are acceptable for use by the Ministry.**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Quad Guard Systems (1005)	

  

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Brakemaster 350 (113)	Traffix sand barrels (294)
CAT – 350 (114)	Quad Guard Elite, LMC and Guard II (1005)
Energite III Sand Barrels (115)	Quest Impact Attenuator (1065)
Fitch Sand Barrels (116)	TRACC (984)
8315 350 (117)	TraFFix Compressor Attenuator (997) (Note: Steel Base fixed to pavement surface must be engineered)
Universal TAU-II (118)	CrashGard Sand Barrels (1012)
Quad Trend (119)	Canada Culvert Fleet 350 End Terminal (1156)
Adiem 350 (125)	

## STEEL BARRIERS

**NOTE: The following products have met the certification requirements of the National Co-operative Highway Research (NCHRP) Report 350, Test Level (TL) 3 and TL4; and as such are acceptable for use by the Ministry Traffic and Highway Safety Engineering Department on a project specific application for specialty applications related to longer term construction work.**



ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Zoneguard (TL3 & TL4) (1136)	Vulcan Gate (TL3 & TL4) (1130)

**Note:** Above barrier products are considered temporary in nature and would be considered through a project specific traffic control plan submission. Temporary products do not need to be in the RPL and will be removed in the next edition.

## WATER FILLED BARRIERS

Products are no longer listed in this category. Water filled Traffic Barriers are considered temporary in nature and would be considered through a project specific traffic control plan submission.

**NOTE: Contact Traffic and Highway Safety, Engineering Services Department, (Joy Sengupta (778) 974-5284), prior to using Glare Screens, Impact Attenuators, Cable Barrier, and Water Filled Barriers Products.**

## HAZARDOUS WASTE MANAGEMENT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Aqua Dams (333)	HAZGARD 100 and 250 (907)
Claymax (225) <b>Discontinued</b>	HAZGARD 500 (908)
KCM Containment (400)	HAZGARD 10000 (911)

## LIGHTWEIGHT FILL MATERIAL

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Geolite (711)	Tephralite _ Light Vesicular Basalt (1140)
Plasti-Fab GeoSpec Lightweight Fill Material (799)	Korolite EPS Geofoam – Airfoam Industries Ltd. (1165)
Super Fill LW (925)	Garibaldi Pumice (1177)
Cematrix Cellular Concrete (1100)	Recoglass Foamed Glass Gravel (1219) <b>TRIAL USE only</b>
Gastado Cell-Crete (1114)	EPS Molders EPSM GeoFoam (1270)
Enviro-Rock - United Concrete & Gravel Ltd. (1414) (Trial use till March 2027)	

## PORTLAND CEMENT CONCRETE

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction - Section 211, qualifies under this section.

## PORTLAND CEMENT CONCRETE ADMIXTURES

**Concrete Admixtures have unique properties which influence the resulting properties of the Portland Cement Concrete product.**

**Applications of Concrete Admixtures need to be carefully applied as to achieve the concrete mix-design to meet Ministry's Standard Specification 211 requirements; and CAN/CSA 23.1 and 23.2. Each admixture additive is subject to the Ministry Representative's acceptance in accordance with SS 211.**

**The Ministry lists the following manufactures of concrete admixtures as submitting independent ASTM testing results meeting ASTM test requirements for Air Entraining (ASTM C 260) and**

**Chemical Admixtures (ASTM C 494) which may be used in concrete mix designs in complying with the Ministry's Specifications 211 and CAN/CSA 23.1 and 23.2.**

ACCEPTED MANUFACTURER	ACCEPTED MANUFACTURER
GCP Applied Technologies Admixtures [name change from Grace February, 2016] (943), Elara (1287)	Euclid (1010)
BASF - Master Builders (100)	Sika (Canada) (1133)
Chryso (992)	

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Cellular Concrete Technologies.Stable Air (1205)	

## ANTI-SKID TREATMENTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Bimagrip HD (472)	Durabak (816)

## BONDING AGENT

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
<del>BASF MasterEmaco ADH 1090 RS (replaces Concretive 1090) (438) discontinued</del>	Industrial Formulators (137)
Powerbond (134)	Miton 514 (138)
Pro-Bond (135)	Starpatch Acrylic 900X (301)
Sikadur (081)	Sternson
Target Bonding Agent (935)	Strong Bond (Symons) <b>Discontinued and replaced with</b> Dayton Superior Acrylic Bonding Agent J40 (578)

## CORROSION INHIBITORS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
D.C.I. (Darex) (535)	Krystol Internal Membrane KIM (1178) <b>Trial Use Only (Dec 31, 2019)</b>
<del>BASF MasterProtect 8000 CI (365) (replaces Masterseal CP) – not available in Canada</del>	Cortec MCI 2005 and 2006 (1180)
MAPEI Mapefer 1K (1070)	

## CURING MEMBRANES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Elsro 702	W.R. Meadows
Sikagard® 180 KNS WB (replaces BASF MasterKure CC 180 WB (replaces Sonneborn Kure-N-Seal) (438)	3001-Rescure Water Base (Innovative Manufacturing) (191) name changed from Webres – Websen
Dayton	Waterproof & Spec. Coating (142)
Sika Florseal WB 18 (1133)	SpecChem PaveCure Rez White (1265)
Sika Florseal WB 25 (1133)	SpecChem PaveCure WW (1265)
	Hard Cem (1042) Concrete Hardner

## DECK OVERLAY

ACCEPTED PRODUCTS	
Basf HP Deck Overlay with Fibre (426)	

## FIELD ANTIGRAFFITI

Applications for sacrificial washing.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Cappar, Capseal A50 (092)	Spray-Deck (462)
Dow Corning AllGuard (051)	GPA-200 SEI (853)
Elsro #736 Sternson, Acrytite	Sherwin Williams Field Anti-Graffiti (1047)
Canyon-Tone (Conchem) (110)	CSL Silicones Si-Coat Anti Graffiti Protective Coating (CSL531 clear) (1214)
Sikagard Color A50 (131)	AquaTreat SG Antigrffiti (1222)

Applications non-sacrificial products of more than 5 years.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Protectosil Antigrffiti (1222)	

Note: the above products may be suitable for steel

## GROUTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
<b>BASALITE (425)</b>	<b>MAPEI</b>
Basalite Non Shrink (425); Basalite Microsil Anchor (424); Basalite Rehab Mix - (426)	MAPEI Planigrouts (1070) MAPEI Stabilcem AG (1070)
<b>BASF</b>	<b>RAPID SET</b>
BASF Construction Grout (438); SikaGrout®-928 (replaces BASF Masterflow 928)	Rapid Set Cement-All (321)
<b>EUCLID</b>	<b>STARPATCH (313 to 315)</b>
	Starpatch Patching Mortar (313); Starpatch Road Repair (314); Starpatch Thin Set (316); Starpatch Filling Mortar (315)
<b>FIVESTAR</b>	<b>TARGET (699, 702, 703, 708 and 967)</b>
Fivestar Fluid Grout 100 (991); Fivestar Fast Cement (991); Fivestar Pile Jacket Grout (991); Fivestar Cementitious Underwater Grout (991); Fivestar Post Tensioning Cable Grout (991); Fivestar Special Grout 400 (991); Fivestar Instant Grout (991)	Target Machine Base Grout (699) Target 1118 Grout (702) Target Flowcrete (703) Target Portland Expanding (708) Target 1117 Silica Fume Anchor Bolt Grout (967)
<b>Hilti (1067)</b>	<b>Sika (1133)</b>
Hilti Precision Grout PG (1067) Hilti Epoxy Grout EG (1067) Hilti Multipurpose Grout MG (1067)	Sika 212HP (1133); Sika 212 (1133) Sika 212SR (1133) Sika M-Bed Standard (369)
	<b>SpecChem (1265)</b>
	SC Precision Grout (1265) SC Multipurpose Grout (1265)

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Burke-2 (108)	Miton 700 (144) Miton 227 (141)
Burke, Fast Patch 928 (126)	US Mix Co – US Spec NA 5 (1216) and US Mix Co – US Spec NA 50 (1216)
Burke Nonferrous Grout (127)	Burke Standard 621 Grout (128)

## INJECTION SEALERS

Products are applied by drilling into concrete and injecting material to seal leaks.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Turbo Seal U and P (1148) <b>TRIAL USED Hwy 5</b> <b>expires Dec 31, 2017</b>	

## PATCHING PRODUCTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
<b>BASALITE</b>	<b>MAPEI (1070)</b>
<b>BASALITE</b> Basalite Fast Patch (422); Basalite Rehab Mix (426); Basalite Traffic Patch (423); Basalite Dam Sac 352 (421)	<b>MAPEI</b> Planitop 23 (1070) Planitop XS (1070) Mapcem 202 (1070) Quickpatch. (1070)
<b>BASF(438); (712); (828)</b>	<b>RAPIDSET (320 to 323) (467)</b>
<b>BASF –</b> SikaEmaco 1060 (replaces MasterEmaco 1060) (replaces Emaco 1060 Rapid Mortar); <del>MasterEmaco N 424 (replaces MasterEmaco GP)</del> (discontinued) SikaEmaco 425 Gel Patch (replaces MasterEmaco N 425 ) (replaces Gel Patch) (712); SikaQuick Set 45 (MasterEmaco N 545) (replaces Set 45) (438). SikaEmaco S 466 CL (Replaces MasterEmaco S 466 CI) (replaces Emaco S66) SikaEmaco 488 CI (replaces MasterEmaco S 488 CI) (replaces Emaco S88) <del>MasterEmaco T 415 (replaces Emaco T 415) –</del> not available in Canada SikaEmaco 430 Arctic (replaces MasterEmaco T 430) (replaces Emaco T 430) <del>MasterFlow 100 (replaces Construction Grout);</del> <del>Masterflow 928 (438); discontinued</del> Crafco HP Concrete (1038)	<b>RAPIDSET</b> Rapid Set Cement-All (323); Rapid Set Mortar Mix (320); Rapid Set Cement (321); Rapid Set Concrete Mix (322); Rapid Set DOT Repair Mix (467).
<b>EUCLID (1010)</b>	<b>Sika (1133)</b>
<b>EUCLID</b> Duraltop Gel (1010); Eucocrete (1010); Concrete Top Supreme (1010); Eucospeed MP (1010); Thin-Top Supreme (1010) ; Veraspeed (1010); Veticoat Supreme (1010); Con Thin-Top Supreme Crete (1010)	<b>Sika</b> SikaSet 45 (1133); SikaTop 111 Plus (1133); SikaTop 121 Plus (1133) SikaTop 122 Plus (1133); SikaTop 123 Plus (1133); Sikacrete 08 SCC (1133); SikaQuick 1000 (1133) SikaQuick 2500 (1133)
<b>FIVESTAR (194) (991)</b>	<b>STARPATCH (313 to 316)</b>
<b>FIVESTAR</b> FiveStar - Highway Patch (194); FiveStar Structural Concrete (991); FiveStar Structural Concrete V/O (991)	<b>STARPATCH</b> Starpatch Thin Set (316); Starpatch Patching Mortar (313); Starpatch Road Repair (314); Starpatch Supa-Fine Patching (312); Starpatch Filling Mortar (315)
<b>MAPEI (1070)</b>	<b>TARGET (701, 703 704, 705, 706, and 967)</b>
<b>MAPEI</b> Planitop 12 R (1070) Planitop 12 SR (1070) Planitop 15 (1070) Planitop 18 (1070) Planitop 18ES (1070)	<b>TARGET</b> Target SC100W (701) Target Flowcrete (703) Target SC100D (704) Target Traffic Patch Course (705) Target Traffic Patch Fine (706) Target V/O Patching and Repair Mortar (967)

<b>Barricades and Signs</b> T-17 Methyl Methacrylate (MMA) Polymer Concrete Patch Material ( <b>trial Use till November 2026</b> )	
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ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Fast Set Patching Concrete (700)	Sealcoat Elastic Plus (652)
Fusion-Crete Crystals (638)	Roadware 10 min Concrete Mender (277)
Highway Patch (194)	Thin Patch (Symons) (577) <b>replaced with</b> Dayton Superior Thin Resurfacer (577)
Insta-Patch (145)	Tapecoat M860 Road Repair (380)
Wunder-Plast Swiss System (180)	Verticle Patch (Symons non-sag) (582) <b>replaced</b> Dayton Superior HD 25 VO (582)
Epoxy Overlay/Polymer Concrete (437)	HD-50 (837)
Fusion Crete (Reg Set) (123)	MG-Krete (937)
Fusion Crete (Minute Set) (193)	
MCI – 2038 and 2039 (Cortec) (1180)	Easy Patch - Kwik Bond (1127)
Quazite (patching blend) (209)	SpecChem RepCon V/O (1265)
	SpecChem RepCon 928 (1265)
	CWI Williamette Valley Fastpatch MD/GC (1210)

## SEALANT

**Silane Products are to meet Environment Canada Regulations for Architectural, Industrial and Maintenance Coatings of 400g/L.**

The use of a sealant is subject to contract requirements and manufacture's application.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
CIM Membranes (112)	Miton 400 (147)
Cemflex (658)	Pena-Seal (455)
Chemco System Kemko 046 (129)	Sealcoat Elastic (652)
Clear seal (460)	Sealoflex (659)
Code Blue (544)	Sealclear (660)
Protectosil BHN (381)	Sealobond (661)
Sikagard-400 Enviroseal (replaces MasterProtect H 400 (438) (replaces BASF Enviroseal 40) (365)	Euclid Baracade Silane 40 (1010)
Masonry Guard (Weather-bos) (642)	SpecChem SpecSilane 40 WB (1265)
MAPEI Mapelastix (1070)	CWI Williamette Valley Fastpatch EJC-25 (1210)
Barricades and Signs (1369) – (Products manufactured by Transpo Industries Inc.) ( <b>Trial use till December 2026</b> ) Sealate T-70 High Molecular Weight Methacrylate (HMWM) crack Sealer T-78 Methyl Methacrylate (MMA) Concrete Crack Sealer	

## SIDEWALK TOPPING

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Epoxy Overlay/Polymer Concrete (1063)	Starpatch Supa-Fine Patching (312)
Polymer Concrete (Steilacoom) (437)	System 400 (443)

## EXPANSION JOINT FILLER (Concrete curb, gutter and sidewalk only)

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Nomaco- Nomaflex (1332) (Trial use till December 2026)	

## SPECIALTY PRODUCTS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Dam Sac Rehab Mix (420)	Target Sacking Mix (707)
Basalite Bridge Deck Concrete and (HP Bridge Deck Overlay with Fibre - discontinued) (426) only as Specified by MoTI	Con Sys - Rebar Supports (1227)
CMax Cement (620)	

## PORTLAND RECYCLED CONCRETE AGGREGATE MATERIAL (RCAM)

RCAM is a blend of Recycled Concrete Aggregate (RCA), Recycled Asphalt Pavement (RAP) and other accepted virgin aggregate sources meeting SS 202.

RCAM may be an aggregate source complying with SS 202 and Special provisions; and has had material testing meeting based on and meeting SS 203 RCAM.

ACCEPTED SUPPLIERS	ACCEPTED PRODUCT

## PRESERVATIVES

### WOOD TREATMENT

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 908, Preservative Treatment - Wood Products, qualifies under this section.

## PROPRIETARY ANCHORING SYSTEMS

### Geotechnical Anchors – Soil, Rock, Soil Nails, Micro Piles, Drill Drains

***Note: Rock and Soil Anchors, Soil Nails, and Micro Piles are for engineered applications and requirements are site specific in accordance with the drawings, specifications and contract documents.***

Engineered slope stabilization using Rock and Soil Anchor, Soil Nail, Micro-Piles, and Drill Drain products are engineered solutions based on the site requirements and applications. Products are specified as required for the engineering solution.

Corrosion needs to be considered in long term applications.

Special Provisions will identify corrosion monitoring and specifications for the Proprietary Anchoring System. The following tests may but not limited to, apply: SSPC CS 23.00/AWS C2.23M; AWS

ACCEPTED SUPPLIER/MANUFACTURER	ACCEPTED SUPPLIER/MANUFACTURER
Con Tech (1218)	DywiDag
Ischebeck - TITAN Hollow Bar (1415) Approved	Williams Form Hardware & Rock Bolt (Canada) LTD. (1412)

## ANCHORS (Mechanical and Adhesive)

For structural and load carrying applications, products for anchoring require an engineering evaluation for strength, creep, durability, and other performance factors to verify suitability for the specific intended use.

**Note: Application of anchors are designed and engineered applications in accordance with manufacture's load capacity and use, and installed environment.**

**Particular installation and preparation (cleanliness) - dry, wet, and water filled environments may affect load capacities and capabilities.**

## MECHANICAL TYPE

**Note:** Mechanical anchors are not suitable for the environment exposed to trapping water and chlorides.

ACCEPTED MANUFACTURERS	ACCEPTED PRODUCTS
Hilti (557) (1067)	Hilti HSL (557) Hilti HY Anchor (1067) Hilti HDA Undercut Anchor (1067) Hilti Kwik Bolt TZ2 expansion anchor (1067) Hilti Kwik Bolt 3 expansion anchor (1067)
DEWALT Fasteners (758)	DEWALT Power Stud SD1, SD2, SD4, and SD6, DEWALT Atomic Undercut (758) CCU+ DEWALT Screw - Bolt (758)
Red Head (559)	
Simpson (1079)	Simpson Strong Tie -Strong-Bolt 2 (1079) Simpson Strong Tie - Wedge All (1079)
UCAN Fasteners(1242)	SZ Heavy Load Anchor (1242)

## EPOXY or ADHESIVE TYPE

ACCEPTED MANUFACTURERS	ACCEPTED PRODUCTS
Hilti (557) (1067)	Hilti HIT HY 10 Plus (1067) Hilti HIT HY 100 (1067) Hilti HIT HY 200V3 (1067) Hilti HIT HTE 50 (1067) Hilti RE10 Hilti HIT RE100 (1067) Hilti HIT RE500 V3 (1067)
Dewalt Fasteners (758)	DEWALT AC Gold 100 (758) DEWALT Pure 50 and 110 (758) DEWALT AC200+ (1389) Pure 220+ (758)
Red Head (559)	Epcon A7+
Sika (1133)	Sika AnchorFix-2 Arctic (1133) Sika AnchorFix-2001 (1133)



	Sika AnchorFix-3001 (1133)
<b>Simpson (1079)</b>	Simpson Strong – AT-XP in conjunction with AT, SET, SET-XP, EDOT (1079) Simpson Strong Tie-Anchor Systems (1079) SET-3G High-Strength Epoxy Adhesive (1326)
<b>UCAN Fasteners (1242)</b>	FLO-ROK FR6 SD (1242) FLO-ROK® FR5-MAX (1242)

## OTHER EPOXIES

CIA Gel 7000C (545)	Acrylic-Tie AT (864)
HST200 (597)	Epoxy-Tie SET, ET, ETF (902)
HS200 (597)	Vinylester Glass Capsule Adhesive VGC (903)
JR200	Dayton Superior All weather J51 (1063) (also known as Unitex Pro Poxo 400)
Hi-Tech Structural Gel (687)	

## PROPRIETARY STRUCTURES

**Note:** The application/selection of a proprietary structure must fulfill the designed parameters and requirements desired for the location and use. Each application is unique to the engineering requirements and the selection will be related to those requirements such as life cycle, economics, and functionality.

**Note:** Supplier/Manufacturer is to provide to the installer/contractor “Certification of Installation” that the Proprietary Structure meets the Supplier/Manufacturers installation and construction requirements upon satisfactory completion of the installation. The “Certificate of Installation” is forwarded to the Ministry for a record of the constructed Proprietary structure.

## CONCRETE ARCHES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RECO Tech Span (264)	BEBO Concrete Arches (949)
Shotcrete Arch <b>Note:</b> unbound tendons are not permitted	

## STEEL ARCHES AND PIPES

Pipes to conform to current CSA-G401-14 requirements, SS 320, and as specified in the Special Provisions.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
<b>Armtec</b>	<b>AIL</b>
Armtec Mini-Span (843)	AIL Super-Cor Bolt-a-Plate (655)
Armtec Multi-Plate & Super Span (850)	AIL Dur-A-Span (1036)
Armtec Bridge-Plate (821)	AIL Best Kote Structural Plate (1036)
Armtec Tunnel Liner Plate (821)	AIL Ultra-Core (1036) <b>(Trial Use only expires Dec. 31, 2025)</b>
Armtec Strata CAT Coating (821)	
Canada Culvert CorPlate (1156)	Siderar Arsa MP 150 AND 152S (775)

## MSE RETAINING WALLS SUPPORTING BRIDGE ABUTMENTS

*Note: See MoTI's Bridge Standards and Procedures Manual Volume 1 Supplement to CHBDC S6-19 Section 6.19 MSE Wall Systems*

### BRIDGE ABUTMENTS ARE SUPPORTED BY RETAINING MSE WALL (TRUE ABUTMENTS)

#### MSE WALLS WITH NON-EXTENSIBLE REINFORCEMENT STRIPS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AIL Vist-A-Wall c/w Pre-cast Facing and Grid-Strip Reinforcement (W11 Wire and Bolted Connection) (1036)	Hilfiker RSE Smooth Face (436)
AIL Vist-A-Wall c/w Pre-cast Facing (W11 Wire and DPTS anchor connection)	VSL Retained Earth now VSL (Vorspann Systems Ltd.) (148)
AIL Vist-A-Wall c/w Pre-cast Facing and Wire Mesh Reinforcement (1036)	Reinforced Earth Terra Class by Geoquest (264)
Hilfiker Eureka Reinforced Soil (436)	

### BRIDGE ABUTMENTS ARE SUPPORTED BY RETAINING MSE WALL (FALSE ABUTMENTS)

#### MSE WALLS WITH NON-EXTENSIBLE REINFORCEMENT STRIPS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AIL Vist-A-Wall c/w Pre-cast Facing and Grid-Strip Reinforcement (W11 Wire and Bolted Connection) (1036)	Hilfiker Eureka Reinforced Soil (436)
AIL Vist-A-Wall c/w Pre-cast Facing (W11 Wire and DPTS anchor connection)	VSL Retained Earth now VSL (Vorspann Systems Ltd.) (148)
AIL Vist-A-Wall c/w Pre-cast Facing and Wire Mesh Reinforcement (1036)	Reinforced Earth Terra Class by Geoquest (264)
Hilfiker RSE Smooth Face (436)	

## MSE WALLS WITH EXTENSIBLE REINFORCEMENT STRIPS

### ACCEPTED PRODUCTS

#### Tensar ARES Retaining Wall System (719)

*ARES walls with full height facing panels are limited to a maximum wall height of 7.5 m and shall only be used where the estimated differential settlement is less than or equal to 1/500. ARES walls with 3 m nominal segmental facing panels or with 1.5 m nominal segmental facing panels are limited to a maximum wall height of 9 m.*

## RETAINING WALLS (Supporting Loads)

### RETAINING WALLS - (up to 5m in Height) Wire Walls

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Evergreen Wall (195)	Modular Gabions (1028)
Maccaferri Gabions PVC/ PoliMac® (124)	Strata Slope Systems (901)
Maccaferri Terramesh PVC/ PoliMac® (836)	Tensar Sierra Scape System (719)
Hilfiker Wire Walls (various products) (436)	

**NOTE:** Approval for systems using wire facing is conditional on compliance with AASHTO Standard Specifications for Highway Bridges, corrosion-resistance durability requirements. The design life of Wire Faced MSE Walls shall be 100 years unless otherwise specified by the Ministry. Wire Faced Walls shall be designed for site specific environment and exposure conditions. Exposure to drainage, runoff and spray containing de-icing salts shall be specifically addressed by a corrosion evaluation during the design phase. Corrosion of Wire Faced MSE walls has occurred prematurely on a couple of Ministry walls and a review of Wire Faced MSE walls is being undertaken by the Ministry to find and address the cause.

**Note:** See MoT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-19 Section 6.12 and 6.14 for details on abutment and wall requirements (products in this category are governed by a height of 5m).

### RETAINING WALLS - (up to 5m in Height) Concrete Faced Walls

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Allan Block (324)	Magnumstone (995)
Basalite Geowall Max (931) (formerly known as Standard Unit Keystone)	Stresswall (174) <i>Hollow panels not permitted</i>
Basalite Geowall Pro (931) (formerly Keystone - 1.33 Elite and Compac (931))	Redi-Rock (822) <i>with geosynthetic reinforcement</i>
Landmark Retaining Wall System (1153)	Tensar Mesa Retaining Wall System (719)
Lock-Block Ltd. (074) with geosynthetic reinforcement. Facing to be textured with other materials as required by the specifications or contract	Versa-Lok Wall System (685)

**NOTE:** In areas of the Province where the number of freeze-thaw cycles will exceed 3000 over the design life of the project (Review for compliance to ASTM C1262 and ASTM C1372), dry pack (zero slump) concrete products will not be used. In these areas, wet poured concrete products may be used with a 4 – 6% entrained air requirement added to the requisition.

**NOTE: All modular block systems with individual block heights of less than 300 mm. must have the top 4 courses grouted. Additional mechanical connections may be required for seismic design considerations.**

**Note: See MoT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-19 Section 6.12 and 6.14 for details on abutment and wall requirements (products in this category are governed by a height of 5m).**

## **RETAINING WALLS - (up to 9m in height) Wire Faced Walls**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
AIL Vist-A-Wall Wire Wall with Mesh Reinforcement (1036)	Layfield Wire Mesh Wall (987)
Armtec Wire Mesh Wall Systems (949)	Tensar Sierra Scape (719)
Hilfiker Wire Walls (various products Art Weld Gabions) (436)	Maccaferri Terrawall PVC/ PoliMac® (1008)
Strata Slope System (901) System acceptance based on Strata's geosynthetic products	AIL - Track-Strip MSE Retaining Wall (1383)

**NOTE: Approval for systems using wire facing is conditional on compliance with AASHTO Standard Specifications for Highway Bridges, corrosion-resistance durability requirements. The design life of Wire Faced MSE Walls shall be 100 years unless otherwise specified by the Ministry. Wire Faced Walls shall be designed for site specific environment and exposure conditions. Exposure to drainage, runoff and spray containing de-icing salts shall be specifically addressed by a corrosion evaluation during the design phase. Corrosion of Wire Faced MSE walls has occurred prematurely on a couple of Ministry walls and a review of Wire Faced MSE walls is being under taken by the Ministry to find and address the cause.**

**Note: See MoT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-19 Section 6.12 and 6.14 for details on abutment and wall requirements (products in this category are governed by a height of 9m).**

## **RETAINING WALLS - (up to 9m in height) Concrete Faced Walls**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
AIL Vist-A-Wall c/w Pre-cast Facing and Grid-Strip Reinforcement (W11 Wire and Bolted Connection) (1036)	Lock + Load (720) <i>facing slope shall not be steeper than 10 vertical to 1 horizontal if geogrid reinforcement is specified Miragrid XT or Stratagrid geogrid shall be used</i>
AIL Vist-A-Wall c/w Pre-cast Facing (W11 Wire and DPTS anchor connection) (1036)	Tensar Ares (719) Tensar Mesa Retaining Wall System (719)
AIL Vista-A-Wall c/w Pre-cast Facing and Wire Mesh Reinforcement (1036)	Redi-Rock (822) <i>with geosynthetic reinforcement</i>
Allan Block (324)	GeoMega by Geoquest (264)
Criblock (942)	Reinforced Earth TerraPlus by Geoquest (862)
Hilfiker Eureka Reinforced Soil (436)	Reinforced Earth TerraClass by Geoquest (264)
Hilfiker RSE Smooth Face (436)	KeySystem (931)
ISOGRID (146) <b>Discontinued</b>	Landmark Retaining Wall System (1153)
Layfield Strengthen Soil Retaining Wall (987)	T- Wall by Geoquest (1384) (trial use till May 2026)
VSL Retained Earth now VSL (Vorspann Systems Ltd.) (148)	

**NOTE: In areas of the Province where the number of freeze –thaw cycles will exceed 3000 over the design life of the project (Review for compliance to ASTM C1262 and ASTM C1372), dry pack (zero slump) concrete products will not be used. In these areas, wet poured concrete products may be used with a 4 – 6% entrained air requirement added to the requisition.**

**Note: See MoTT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-19 Section 6.12 and 6.14 for details on abutment and wall requirements (products in this category are governed by a height of 9m).**

## **RETAINING WALLS (Supporting Loads)-**

### **INTERLOCKING CONCRETE GRAVITY BLOCK (up to 5m in ht.) with Geosynthetic Soil Reinforcement**

Products manufactured are to follow the Interlocking Concrete Gravity Block Standard Specification Section 942, Special Provisions and as follows:

Precast monolithic inter locking concrete blocks have the following nominal dimensions: 750mm x 750mm x (1500mm or 750mm) +/- 6mm long chamfered on all sides or as accepted by the Ministry's RPL standing Committee.

Blocks require manufacturers' legible identification number and name.

Blocks shall have adequate engineered shear key with approximately 12 mm clearance around the shear key; and galvanized steel lifting loops (fabricated from a min. 16 mm nominal dia. galvanized 7 Strand pre-stressed wire cable nominal breaking strength of 16 metric tonnes) as engineered by a Registered Engineer in the Province of BC and anchored sufficiently into the block to limit pull out.

Concrete be poured monolithically with fresh concrete having nominal design strength of a min. 30 MPa, or as required in Special Provisions, and entrained air content of 5 to 7% as tested by plastic concrete testing.

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Lock-Block Ltd. (074) <i>with geosynthetic reinforcement. Facing may be textured with other materials as required by the specifications or contract.</i>	Lock-Block Ltd. Rod Lock (074) <i>with connection to geosynthetic reinforcement. Facing may be textured with other materials as required by the specifications or contract.</i>
Redi-Rock (822) <i>with geosynthetic reinforcement</i>	Octa Block (1163)

### **INTERLOCKING CONCRETE GRAVITY BLOCK (up to 9m in ht.) with Geosynthetic Soil Reinforcement**

Products manufactured are to follow the Interlocking Precast Concrete Interlocking Modular Blocks Standard Specification Section 942, Special Provisions and as follows:

Precast monolithic interlocking concrete blocks have the following nominal dimensions: 750mm x 750mm x (1500mm or 750mm) +/- 6mm long chamfered on all sides or as accepted by the Ministry's RPL standing Committee.

Blocks require manufacturers' legible identification number and name.

Blocks shall have adequate engineered shear key with approximately 12 mm clearance around the shear key; and galvanized steel lifting loops (fabricated from a min. 16 mm nominal dia. galvanized 7 Strand

pre-stressed wire cable nominal breaking strength of 16 metric tonnes) as engineered by a Registered Engineer in the Province of BC and anchored sufficiently into the block to limit pull out.

Concrete be poured monolithically with fresh concrete having nominal design strength of a min. 30 MPa, or as required in Special Provisions, and entrained air content of 5 to 7% as tested by plastic concrete testing.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Lock-Block Ltd. (074) <i>with connection to geosynthetic reinforcement. Facing may be textured with other materials as required by the specifications or contract.</i>	Lock-Block Ltd. Rod Lock (074) <i>with connection to geosynthetic reinforcement. Facing may be textured with other materials as required by the specifications or contract.</i>

## INTERLOCKING CONCRETE BLOCK RETAINING WALL 7 STRAND PRESTRESSED WIRE CABLE

ACCEPTED MANUFACTURERS/SUPPLIERS	
Lock-Block Ltd. (074)	Lock-Block Ltd. Rod Lock (074)

## INTERLOCKING CONCRETE BLOCK RETAINING WALL (UP TO 5m IN HT.)

ACCEPTED MANUFACTURERS	
Lock-Block Ltd. Rod Lock (074)	

## ACCEPTED INTERLOCKING FORM PATTERN

Forms used in the making of the interlocking concrete gravity blocks.

ACCEPTED MANUFACTURERS/SUPPLIERS	
Lock-Block Ltd. (074)	Lock-Block Ltd. Rod Lock (074)

## RETAINING WALLS (Non-Supporting Loads)

### LANDSCAPING WALLS – (UP TO 3M IN HEIGHT)

***Supporting Retaining Walls (Retaining Walls under 5m and 9m categories) are included in this category and may be used under this category.***

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Allan Block (324)	Envirolok (1032)
Hilfiker Wire Walls (various products) (436)	Stabil Earth Systems Inc. Stabil Earth System (1151)
Terraforce (469)	Denbow Cascadia Green Wall System (1190)
Macaferri Green Terramesh PVC/ PoliMac® (867)	Flex MSE (1236)
Strata Slope Systems (901)	LockBlock – Concrete Landscaping Block (074) (Approved - Nov 2024)
Basalite Geowall Valleystone (931)	

**Note: Landscaping Walls are not to be designed for supporting for the loading of the shoulder or travelling lane or structures.**

**A Landscaping Wall Product needs to have prior acceptance for a product's application that has Design Life of less than 75 years.**

**Note: See MoT's Bridge Standards and Procedures Manual Volume 1 Supplemental to CHBDC S6-19 Section 6.12 and 6.14 for details on abutment and wall requirements.**

## **SLOPE RETENTION SYSTEMS – (UP TO 5M IN HEIGHT)**

**NOTE: The following Slope Retention System products are limited to a slope angle of up to 70 degrees. Systems installed steeper than 70 degrees must qualify as a retaining wall. A Slope Retention Product needs to have prior acceptance for a product's application that has Design Life of not less than 75 years.**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Hilfiker Wire Walls (various products) (436)	Deltalok (791) <b>Discontinued and Replaced with</b> Flex MSE (1236)
Tensar Sierra Slope Retention System (719)	Strata Slope System (901)
Maccaferri Green Terramesh system (1325)	

## **SLOPE RETENTION SYSTEMS - (UP TO 9M IN HEIGHT)**

**NOTE: The following Slope Retention System products are limited to a slope angle of up to 70 degrees. Systems installed steeper than 70 degrees must qualify as a retaining wall. If the product is to be used as a slope embankment application, then the wire needs to be galvanized to have a minimum service life of 50 years and a corrosion rate calculated for the application.**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Tensar Sierra Slope Retention System (719)	Strata Slope System (901)
Hilfiker Wire Walls (various products) (436)	Maccaferri Green Terramesh System (1325) Maccaferri Geogrid Wrap Around Reinforced Slope (1333) (Trial use till June 2025 – system can be used for a full-scale project during the trial period).
Flex MSE (1236) (Trial use till June 2025 – system can be used for a full-scale project during the trial period).	

## **MODULAR CONCRETE BLOCKS**

### **PRECAST CONCRETE INTERLOCKING MODULAR BLOCKS – PERMENANT GRADE**

Products in this category are required to meet Ministry's standard specification SS 942

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS

## ROCK FALL SYSTEMS

### ROCK FALL SLOPE SYSTEMS

**NOTE: Products accepted as follows can be applied to a slope according to the manufacture's/design requirements to stabilize and secure/capture loosening materials but not to perform as a retaining system.**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Geobugg System (906)	Maccaferri System (1043)
Trumer Schutzbauten Systems (985)	

### ROCK FALL CATCH FENCES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Geobugg Rockfall Protection System (1023)	Trumer Schutzbauten Rock Fall Protection System (985)
Maccaferri High Energy Rockfall Barrier (1043)	RISP SRL (1388) (Trial approval till September 2025)

### ROCK FALL PROTECTION MESH

As specified in Standard Specifications 207 and Special Provisions.

## SALT STORAGE STRUCTURES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Diamond Fabric Shelter (938)	All Weather Fabric Shelters (788)
Sprung Structures (1169)	Norseman Portable Shelter (922)

## SOUND ATTENUATION WALL SYSTEMS

**Note: Structural design of the wall must meet Ministry requirements for the project and drawings will be signed off by an engineer registered in BC. Sound transmission is assessed against Ministry's absorption and reflective criteria. Aesthetic considerations need to be assessed for the project work. Note: In areas of the Province where the number of freeze –thaw cycles will exceed 3000 over the design life of the project, dry pack (zero slump) concrete products will not be used. In these areas, wet poured concrete products may be used with a 4 – 6% entrained air requirement added to the requisition. Note: Special Provisions may identify material type of the wall for conditions, aesthetic, or other factor in the wall's performance or application.**

### SOUND ABSORPTION WALLS

Wall absorption specifications are based on ASTM C423 with minimum 0.8 sound absorption coefficient.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Whisper Wall (865)	SoundSorb (1019)
Durisol Sound Absorption Noise Barrier (950)	AIL Silent Protector (1036)
Flex MSE Wall (1236) (Trial use till June 2025 – system can be used for a full-scale project during the trial period).	Forster Noise Barrier Elements (1202)

### SOUND REFLECTIVE WALLS

#### Concrete



**Note: Sufficient cover required for rebar (50mm min.) for corrosion protection on concrete sound reflective walls must be engineered for corrosion protection at locations within the province. Concrete Sound Walls applications for Lower Mainland and Southern Vancouver Island must use epoxy rebar. For locations elsewhere in the Province, rebar must be protected sufficiently or designed to meet project's corrosion requirements and environment.**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AB Sound Fence (324)	Stone Tree Concrete Fence System (1041)
Canus Natural Art Fencing (1049)	DDS Concrete Cedar Fence Noise Wall (1279)

### **Metal**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Forster Noise Barrier Elements (1202)	

### **Plastic or Vinyl**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
AIL Tuff Barrier (1036)	Superior Transparent Noise Barriers LLC - Superior Acrylite Soundstop Transparent Noise Barrier (1411) – Trial use till September 2026

## Wood

### **ACCEPTED PRODUCTS**

FP Innovations (1149) Wood Sound Abatement Wall

Wall based on submitted Drawing dated Feb. 07, 2012 on file.

**Drawings need to show horizontal wood beams need to be internally bounded together to prevent warping and separation from drying.**

Expected Service life is about 25-30 years and the wood wall is less than 50 - 75 years with concrete, metal, plastic, or other durable materials.

**Fabrication and Installation is to follow FP Innovation's Engineered drawing on file.**

Wood Wall Material Manufacturers – Western Forest Products, Teal Jones, Interfor  
(Wood Preservative Treatment - Taiga, Sherwood, Western Wood Preservatives).

## **STRUCTURE PILE REPAIR**

ASTM Test requirements are ASTM D570, D638, D796, D790, and D2583 Tests. Repair must be engineered by a BC P. Eng.

### **ACCEPTED PRODUCTS**

Simpson Strong Tie FX-70 Structure Repair System (1079) **(TRIAL USE Expires Dec 31, 2017)**

### **ACCEPTED PRODUCTS**

## **RAILWAY CROSSINGS**

### **FLANGWAYS**

#### **ACCEPTED PRODUCTS**

HI-Rail (166)

PPI Rubber Interface (168)

#### **ACCEPTED PRODUCTS**

Polycorp Railseal Interface (167)

### **SURFACES**

#### **ACCEPTED PRODUCTS**

HI-Rail (rubber) (166)

Omega (concrete) (996)

#### **ACCEPTED PRODUCTS**

Rail-Way Inc. (concrete & rubber) (170)

## **REINFORCING POLYMERS**

### **GLASS FIBRE REINFORCING POLYMERS**

Glass Fibre Reinforced Polymer (GFRP) products must meet CSA S807-10 "Specification for Fibre-Reinforced Polymers" and CSA S6-19 (CHBDC).

Use of GFRP products manufactured by companies meeting CSA S807-10 only permitted when specified in Special Provisions or by Ministry Representative.

## **REINFORCING STEEL**

Any steel products such as uncoated, epoxy, galvanized, stainless, etc. which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 412,

Concrete Reinforcement qualifies under this section.

(see SS 412.34.03 for Mechanical Coupler Splices requirements)

## **ROAD MATERIALS – TEMPORARY**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	Terra Mats (262)

## **REST AREA IMPROVEMENT**

### **COMPOSITING TOILETS**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Clivus Multrum (733)	Phoenix System (717)

### **ENVIRONMENTAL CLEANUP**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
BOE 505/BOE 510 (626) <i>Discontinued</i>	

### **MISCELLANEOUS**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Eco-Superwood (330)	Concrete Blocks (451)

### **PICNIC TABLES**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Dominion Precast (Terrazzo Finish) (536)	Maintenance Free Benches & Picnic Tables (538)

### **WASTE RECEPTACLES**

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Rough Country (196)	
Hide-A-Bag (Rollins) I BC Special Bear Proof and I Mini Special Bear Proof (077)	Refuse/Recycling Container (32&45&64&90-gal capacity) (539)

## **SOIL STABILIZATION**

### **ROADWAY BASE**

## ASPHALT EMULSIONS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
SS-1	

### B.C. STABILIZER

#### 1. Lignosulphonate

<i>Test Parameter</i>	<i>Ammonium</i>	<i>Calcium</i>	<i>Sodium</i>
<b>Solids (wt %)</b>	<b>53.0</b>	<b>51.3</b>	<b>53.2</b>
<b>Water (wt %)</b>	<b>47.0</b>	<b>48.7</b>	<b>46.8</b>
<b>Relative Density</b>	<b>1.23</b>	<b>1.26</b>	<b>1.25</b>
<b>pH (1:1 with water)</b>	<b>4.2</b>	<b>6.8</b>	<b>5.2</b>
<b>Sugars (% of solids)</b>	<b>14.3</b>	<b>3.8</b>	<b>19.7</b>
<b>Ash (% of solids)</b>	<b>3.2</b>	<b>18.0</b>	<b>16.2</b>
<b>Viscosity (cp)</b>	<b>250</b>	<b>660</b>	<b>200</b>

- SS-1 asphalt Emulsion component in accordance with Specifications Section 951 of the Standard Specifications for Highway Construction.
- Water component that is clean and soft with a conductance less than 200 V, ph @ 6.0 to 8.0 and fully compatible with SS-1 asphalt Emulsion.
- Stabilizer mixture at equal parts asphalt Emulsion, lignosulphonate and water.

#### Test Parameter

SS-1 asphalt emulsion (volume %)	33.3
Water (volume %)	33.3
Lignosulphonate (volume %)	33.3
Relative density 1.09 – 1.10 Solids (weight %)	37.0
Solids (volume %)	31.3
7.0 – 8.0 Viscosity (cp)	50.0
Stability 24 hour	Stable
Compatibility	Compatible

### CALCIUM CHLORIDE

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 991 Calcium Chloride and Sodium Chloride shall apply.

### GENERAL SOIL STABILIZATION

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Cypher Environmental – Dust Stop Municipal blend (1175) – (Trial use only till October 2020) Note: Product to be incorporated into top 1-2 inches of the layer.	

## LIGNOSULPHONATES

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Calcium Lignosulphonate (102)	Sodium Lignosulphonate (103)
	Rayonier (161)

## SUBGRADE BASE

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Base Seal (568)	ISS-2500 (549)
CBR Plus (169)	Lime (073) Hydrated and Quick Lime (073)
Con-Aid (415)	Lite-Con (432)
Consolid Blend (458)	Mountain Grout Soil Stabilizer (849)
Conservex CX (with lime) (457)	Paczyme (072)
Descobond (070)	Soil-sement (510)
Enduraseal (120)	Top Seal (568)
Elastomer Method SFPF2000 (624)	Geosolid (928)
Geol-Bind (071)	

## FOUNDATION BASE

### EXPANDING INJECTION SOIL STABILIZERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
	<b>Poly-Mor Canada Inc.</b> (formerly Uretek ) (956)

## STEEL & IRON

### GENERAL

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 911 – Steel & Iron and Section 582 – Concrete Curb & Gutter & Storm Drainage, qualifies under this section,

Culvert Pipe, Half-Round Flume  
Catch Basin Boxes and Covers  
Cast Iron Frames for Cast Iron Basins and Manholes

## STEEL & WIRE FENCING MATERIALS

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 316 –under the above heading, qualifies under this section.

### PRE-CAST FENCE FOOTINGS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Chain Link Fence Footing (Ericsson Man.) (808)	

## **TIMBER**

### **GLUE LAMINATE**

Products in this category are considered a part of the engineered solution requiring analysis and design on a case by case basis and shall meet the requirements of the Ministry of Transportation and Infrastructure Standard Specification for Highway Construction Section 905 Timber – Glue Laminated.

### **TIMBER MATERIALS**

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction Section 903, Timber Materials, and 904, Treated and Untreated, Fabrication & Handling, qualifies under this section.

## **TRAFFIC CONTROL DEVICES**

### **TRAFFIC CONES**

Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction of Section 971 – Plastic Traffic Cones, qualifies under this section.

### **DELINEATION**

#### **ACTIVE DELINEATION**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Sigma Technologies SMG (Barrier Side Mount) (171)	J.S.Foster PF-8 (Post Mount) (785)
Sigma Technologies TM1 (Barrier Top Mount) (171)	HIL-Tech LEDline (Barrier Top Mount) (959)
Sigma Technologies TM2 (Upgradeable Top Mount) (171)	Item Ltd. iMarker 702 (176)
Harding Smartstud Wayfarer (173) Harding Level Smartstud (1232)	Item Ltd. iMarker 700 (176)
SunBeacon SB104 (Barrier Top Mount) (175)	

#### **ILLUMINATING DELINEATION**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
Illuminated Bollards (982)	Interprovincial Traffic – National LED Chevron sign (1197)
Roadway Traffic Signs “Open/Closed Sign” (1198)	Interprovincial Traffic – STI Open/Closed LED Sign (1198)
UNA Ltd Unipart Dorman Vari-text Signage (1118) Not to be used for speed signing	

#### **ILLUMINATING LEDS DELINEATION**

<b>ACCEPTED PRODUCTS</b>	<b>ACCEPTED PRODUCTS</b>
LEDline (959) (MoT Barrier tested – test section req.)	Lanelight MLK 150 (941) (MoT – test section req.)

## STATIC ROAD EDGE DELINEATION

Delineation as follows:

- 1) Sheeting of reflector to meet ASTM Type 9 or greater,
- 2) Reflector is dual sided for two lane-two-way highways, single sided for divided highways.
- 3) Traffic Engineering to approve size to equate to a 6 inch X 6 inch square telespar post mounted shoulder delineators in terms of reflective power output.

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
4" Flexible Marker Posts Safety-flex Marker (441)	Ridan Composite Marker (960)
Carsonite (109)	Steel Flex (1052)
Polytubes Highway Post (899)	Hel Delineator (1172)
Tuff Curb XLP (1369)	Glasforms Delineators (1211)

## REFLECTORS

### CONCRETE BARRIER MOUNTED REFLECTORS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Astro Optic B1 (235)	Ennis Flint Model 80 replaces Stimsonite 965 (1066)
Rayolite 2001 (154)	Ennis Flint Model 80 replaces Stimsonite 960 (1066)
Rayolite 2002 (154)	BAM Flexible (177)
Rayolite 2003 (154)	Davidson PCBM T12 (998)
Rayolite G-1 Way (154)	Artuk FT-2 (895)
Rayolite G-2 Way (154)	3M Scotchlite Linear Delineation System (851)
Swareflex 3350-Glass bead (715)	Item iMarker (176)
Swareflex 3351-Glass bead (715)	Irwin Hodson "A" Shape HTR Barrier Reflector (1215)

### STEEL BEAM BARRIER MOUNTED REFLECTORS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Irwin Hodson Monarch Reflective Device (1103) (only W beam)	

## SURFACE REFLECTORS

### RAISED

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Ennis Flint model 980 replaces Stimsonite 980 (1066)	Rayolite AA ARC-II series (154)
Ennis Flint Model C80 replaces Stimsonite 88 (1066)	Rayolite 2002 series (154)
3M 290 series (851)	Apex 921 AR (179)
Rayolite 8700 series (154)	Item iMarker 702 (176)
Rayolite All Acrylic series (154)	80/C80 Reflector (999)

## MISCELLANEOUS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Traf-Fix Flags (291)	Portable Changeable Message signs (863)
Traf-Fix Stand (292)	Super bright roll-up signs (663)
Traf-Fix Signs (293)	Versa Bump (319)
Superwood (330)	Qwick Kurb (951)
Lifeguard Channelizer (669)	Portable Changeable Message Sign Ver Mac (1194)
Barrier Stand (750)	FG300 EFX (1130) Delineator Post and Base System with 4" Diamond Grade Reflective Bands with a 6 inch separation.



# **TRAFFIC SIGN POST BASES**

## **CONCRETE SINGLE POST SIGN BASES**

<b>ACCEPTED PRODUCTS</b>
Ericsson (523) Ericsson Sign sonotube and trapezoidal base weights must be close to design requirements. Bases are to comply with Ministry Standard Specifications for Highway Construction, SP635-1.1.35, SP635-1.1.36, SP635-1.1.45, SP635-1.1.46, and SP635-3.6.3. Plant certification is not required, contrary to Clause 635.07. Product is acceptable with Ericsson's square galvanized steel tubing inner sleeve protruding a minimum of 35mm from the top level of the concrete base.

## **ROUND SIGN POST - BREAKAWAY BASE**

<b>ACCEPTED PRODUCTS</b>	
Quickfix Sign Base QF 001 (182)	Kalifix (900) (note: contact HQ Traffic for trial use)
SkiRil Sign Breakout- Flush Mounted Breakaway Base (Oct 2005) (183)	

## **ALTERNATE BACKFILL FOR CONCRETE SINGLE POST SIGN BASES**

<b>ACCEPTED PRODUCTS</b>	
BMK Polecrete (989)	Chemque Q-Set 250 (1110)
Fast 2K Deck & Sign Post Anchor (1334)	

## **ALTERNATE SINGLE SIGN BASE ATTACHMENT**

<b>ACCEPTED PRODUCTS</b>	<b>TRIAL PRODUCTS</b>
Springy Base (1089)	Adapt-Eze CBM-1000 (1157)

# **SIGNAGE**

Check with Ministry Signage contact for accepted signage manufactures and contacts.

<b>ACCEPTED MANUFACTURERS</b>	<b>ACCEPTED MANUFACTURERS</b>
Astrographics Industries Ltd.	Sherine Industries Ltd.
Empire Signworks Inc.	Tran Sign (1999) Ltd.
ATS Traffic British Columbia Ltd.	Valley Traffic Systems Inc.
Barricades & Signs, Ltd.	Zumar Industries Ltd.

## **REFLECTIVE SHEETING for SIGNAGE**

Products currently meet ASTM 4956 - Type 1, Type 3 and 4, and Type 9 or better - Type 11 minimum standards for retro-reflectivity.

<b>ACCEPTED PRODUCTS</b>	
Avery Dennison Products (763)	3 M Products – (and 3930DS and 4090DS) (1077)
ORAFOL Products ORAFOL 7900 Series Prismatic Retro-reflective Sheeting ASTM Type 9 can be used and monitored for application (1185)	3M Advanced Engineer Grade Prismatic AEGP – 7930 (1077)

ORALITE® 9900 Brilliant Grade Premium (1368) – (Trial approval till December 2026)	
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# PAVEMENT MARKING MATERIALS

## BEADS

### GLASS BEADS

A glass bead product must meet the requirements of AASHTO M 247-13. Manufacture/suppliers are to provide independent testing from accredited North American testing laboratories results showing compliance to current AASHTO M-247. The glass beads shall have dual coatings for adhesion and embedment. Heavy metal concentrations shall be below the following concentration limits.

Arsenic - 50mg/kg (50 ppm); Lead - 90 mg/kg (90 ppm); and Antimony - 75 mg/kg (75 ppm).

ACCEPTED PRODUCTS (Regular Glass Beads)	
All Potters Glass Beads - Normal, Ultra 1.9, Visilok, Visiskid, Visi Bead, EHP (1145) Potters UltraGuard (1145) (Trial Use till December 2026)	McStars Glass Beads (1189) Vantac Glass Beads Type 1 (1300)
Swarco (947) Swarco Type I, II, III, IV, V, 30/50, Duralux, Megalux (trial use till December 2026)	Gentem – Dylantech Type 1 Glass beds (1374). - (trial use till July 2027)

ACCEPTED PRODUCTS (Enhanced Glass Beads)	
Potters Glass Beads – BC P40	

### CERAMIC BEADS

ACCEPTED PRODUCTS
3M All Weather Elements Series (1077)

### GLASS BEADS FOR WET REFLECTIVE/RECOVERABLE APPLICATIONS

ACCEPTED PRODUCTS	
3M Connected Roads All Weather Elements (1077) Potters Visimax white and yellow (1145) Potters Industries Ltd. - Visi-Ultra (1145)	Vantac All Weather Beads 0812 (1300)

## DURABLE PAVEMENT MARKING MATERIALS

Select correct material type to asphalt pavement. For example, some Thermoplastics are specific for Asphalt applications. Applications of Thermoplastics or MMA on existing paint or other durables requires to be evaluated for adhesion, and pavement marking like paint may need be eradicated before applying a durable as well as some Thermoplastics or MMA may not adhere to older durable pavement marking materials because of grade of thermoplastic or material type differences.

Applications follow ASTM testing and requirements.

Depending on application, Durable Pavement Marking materials can be Wet Night reflective if they meet Wet Night High Visibility Striping requirements

**Note:** Products approved for trial can be used on full scale project(s) during trial period.

## EPOXY

ACCEPTED PRODUCTS	
Epoplex LS50, LS65, LS65QS (918 & 919)	Alta 400 (1209) (modified Polyacrylate)
HPS-4 (1137)	Swarco MFUA-10 System Modified Poly Acrylate (947)
PolyCarb-Mark 55.4 - Dow (078)	

## THERMOPLASTIC

ACCEPTED PRODUCTS	
Interprovincial Traffic Services Can 100 (White) (184)	Swerdna 31-Series (1072) (Trial Use till December 2026)
Lafrentz System 300 (1017) (White and Yellow)	
Ennis Flint Thermoplastic Products (1030) <b>Various Types of Thermoplastic Products</b>	3M All Weather Thermo - Type 1, Type 2, and AWT with intermix Elements (Liquid Pavement Marking) (1077)
Swarcotherm Hydro White (947)	Hitex HiBrite and Hitex Spray (1262)
Ozark Hydrocarbon Thermoplastic - White (1327) – (Trial Use till December 2026)	Ozark Alkyd Thermoplastic – White, Accel Thermoplastic (1327) – (Trial Use till December 2026)
Gentem Inc. – Endurance Thermoplastic Products (1374) (Trial Use till December 2027)	Swarco Industries LLC Swarcotherm Alkyd Thermoplastic (1359) – (Trial Use till December 2026)
3M All Weather Thermo/Intermix Elements (1077)	Vantac – Vantac Max-Line Thermoplastic

## PROFILED THERMOPLASTIC

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
RainLine Profile Line (666)	LaFrentz Sno Pro (1017)
Hitex RibLine (1337) (trial till Sept. 2021, can only be used in areas using rubber covered blades on snowplows)	Hitex RainSafe (1262) (Can only to be used as a flat line when specified in Special Provisions)

## MMA - METHYL METHACRYLATE

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
HPS-6 Profile Line (1137)	LaFrentz Pathfinder (1017) (Splatter on pavement)
Alta ASMA Series 800 (1209) (profiled wet night)	HPS-7 (1137)

LaFrentz Pathfinder (1017) (splatter on solid MMA line)	Vantac Max-Line Pro (1300)
Swerdna - PLR FP2K Cold Plastic (1073) (Trial Use till December 2026)	Vantac VG Spray Cold Plastic MMA (1300)
HPS-6 (1137) (note: continuous line)	Lafrentz System 400 - (1017) (note: continuous line)
Alta 600E (1209) (Extruded flat line)	Alta 600s (1209) (spray flat line)
Hitex Puma Spray Road Marking Grades (1262)	Consolidated Coatings - Consolidated Polar Set Durable MMA 1:1 and 98:2 Mix Ratio (1301)
HPS-7 (1137) (note: splatter line)	Pathfinder - Lafrentz (1017) (note: splatter line)
Alta 600p (1209) (profiled bump line)	Hitex Puma Road Marking Grades (1262)
Barricades and Signs – Color-Safe (1369)	

## MULTI POLYMERS

ACCEPTED PRODUCTS	
Ennis Flint HPS-8 (1137) (Trial Use till December 2026)	

## POLYUREA

ACCEPTED PRODUCTS	
Epoplex LS90 (919)	Magnolia Advanced Materials MagnoMark P30 (1260)
3M LPM 5000 (1077)	Swarco MFUA-12 Poly Urea (947) (Trial Use till December 2026)

## URETHANE

ACCEPTED PRODUCTS	
Alta 400 (1209) (modified urethane)	Consolidated Coatings – Polar Set Durable Urethane Pavement Marking (1301) (Trial Use till December 2026)

## TAPE

ACCEPTED PRODUCTS	
3M Stamark High Performance (380IES) (1077)	Stamark 3M 380AW (1077)

# **WET NIGHT HIGH VISIBILITY TRAFFIC MARKING**

## **WET NIGHT STRIPING SYSTEMS**

Wet Night High Visibility Striping Systems can have a:

- Surface profile characteristics with standard glass bead for enhanced reflectivity to meet ASTM E2177 wet recovery; or
- Flat or surface profile characteristic with 3M All Weather Elements for enhanced reflectivity that when combined can meet ASTM E2832 (E2176) continuous wet night and ASTM E2177 wet recovery.

Glass beads and other standard bead types can give desired wet night reflectivity characteristics of ASTM E2177 wet recovery when used in conjunction with a proper surface profile of a durable marking line.

3M All Weather Elements give desired wet night reflectivity characteristics of ASTM E2832 (E2176) continuous wet night and ASTM 2177 wet recovery when used in conjunction with the proper flat line or surface profile of a durable thermoplastic, MMA, or epoxy marking line.

Marking tape like 3M's Stamark 380 AW durable marking tape meets both ASTM E2832 (E2176) continuous wet night and ASTM E2177 wet recovery performance.

### **Wet Night Striping Systems using beads in the wet night category (wet reflective/recovery)**

The Ministry may allow use any of the approved durable pavement marking products in RPL to be used as wet night striping system if the marking system meet all of the following requirements.

1. The system shall use beads specified in the RPL under wet night category in addition to any other beads specified.
2. The system shall meet all retroreflectivity requirements - dry, wet continuous and wet recovery (ASTM E2832 and E2177) as specified in the contract.
3. The systems shall meet all other requirements specified in the durable pavement marking contract.

Special Provisions to specify the following requirements:

- Profile Surface;
- Durable pavement marking material requirement for location and application;
- light milling of existing traffic marking material to ensure clean pavement surface for adhesion of durable material;
- solid line with profiled marking on the surface of the durable marking material to provide uneven surface marking for light retro-reflectivity;
- line type for desired stripping application for line reflectivity;
- surface and/or sub-surface/inlaid profile requirement for the durable wet night high visibility stripping system when abrasion from snow removal is very strong;
- ASTM E2832 (E2176) continuous wet night and/or ASTM E2177 wet recovery performance requirements; and
- Edge, median, and/or lane pavement marking requirements.

## PREFORMED AND OTHER SPECIALTY TRAFFIC MARKING APPLICATIONS

**Note:** Products approved for trial can be used on full scale project(s) during trial period.

ACCEPTED PRODUCTS	
Preformed thermoplastic and Epoxy	
PolyCarb-Mark 55.4 - Dow (078)	Ennis-Flint Trading - Hot Tape (1069)
Swarco Preformed Thermoplastic Markings (947)	PreMark – Vizigrip (1080)
Ennis-Flint Flame Tape (1030)	Traffic Patterns and Traffic Patterns XD (1091)
DuraTherm (1061)	Ozark Preform Thermoplastic – White and Yellow (1327) – (Trial Use till December 2026)
OPTAMARK Preformed Thermoplastic Road Markings – ATS Traffic (1376) (Trial Use till December 2026)	Gentem Inc. – Preformed Thermoplastic Products (1374) (Trial Use till December 2027)

## TEMPORARY PAVEMENT MARKING MATERIAL

### TEMPERORY PAVEMENT MARKING FOR CONSTRUCTION AND OTHER APPLICATIONS

ACCEPTED PRODUCTS	
3M - Removable Pavement Marking Tape (with wet reflectivity) (410)	3M - Removable Blackout Pavement Mask (412)
Flex-O-Line FOL 200 (084)	Durable Pavement Marking Tape Ss. 1000 (413)

### TAPE (TEMPERORY PAVEMENT MARKING TAPE) WET NIGHT CATEGORY

ACCEPTED PRODUCTS	
3M - Removable Pavement Marking Tape (with wet reflectivity) (410)	

## TRAFFIC MARKING PAINT

**The Ministry has an interest in using trial resins such as a Dow polymer resin 5408 in traffic marking paints and a traffic marking paint having such a resin may be used on a trial basis only with prior assessment and approval of the Ministry Representative.**

*Color requirements for white and yellow traffic marking materials are specified and governed in the Ministry's Pavement Marking Contracts.*

The following lists details the suppliers and their formulations which have been tested to meet specifications for supplying Traffic Paint to the Ministry Pavement Marking Contractors:

## WHITE TRAFFIC PAINT (ALKYD/ ACETONE, LOW VOC)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year Accepted	Year Last Used/ Notes
<b>Standard White</b>		<b>78-915</b>			<b>Reference</b>
General Paint (1022) (Sherwin Williams)	No	78-011	149	2013	Not Acetone Based
Cloverdale Paint (952)	No	79-424		2002	
Ennis-Flint (1030)	No	986061	148	2015	Acetone, low VOC
CPC Paintech	-	CPC 9101	-	2018	White alkyd (Trial use till December 2026)
Swarco/Colorado Paint Company (1358)	No	2070	<100	2019	White Low VOC
Vantac ITS Group	No	Vantac Solvent Based White		2024	Solvent based white
General Paint (1022) (Sherwin Williams)	No	ProMar® Acrylic TM5712	148	2024	Solvent Based White (Trial use till March 2026)

## YELLOW TRAFFIC PAINT (ALKYD/ ACETONE, LOW VOC)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year Accepted	Last Year Used / Notes
<b>Standard Yellow</b>		<b>78-161</b>			<b>Reference</b>
Ennis-Flint Paint (1030)	No	991071	416	2007	
Ennis-Flint (1030)	No	986063	148	2015	Acetone, low VOC
General Paint (1022) (Sherwin Williams)	No	78-012	149	2013	Not Acetone Based
CPC Paintech	-	CPC 9102	-	2018	Yellow alkyd (Trial use till December 2026)
Swarco/Colorado Paint Company (1358)	No	2076	<100	2019	Yellow Low VOC
Vantac ITS Group	No	Vantac Solvent Based Yellow		2024	Solvent Based Yellow
General Paint (1022) (Sherwin Williams)	No	ProMar® Acrylic TM5713	114	2024	Solvent Based Yellow (Trial use till March 2026)



## WHITE TRAFFIC PAINT (WATER BASED)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year Accepted	Year Last Used / Notes
Ennis-Flint Paint (1030)	No	991062	102	2007	
Ennis-Flint Paint (1030)	No	991066	90	2007	
Ennis-Flint Paint (1030)	No	983711	105	2015	White WB
Ennis-Flint Paint (1030)	No	984421	89	2015	White WB high build
Ennis-Flint Paint (1030)	No	985351	100	2015	White WB low temp
Ennis-Flint Paint (1030)	No	980201	96	2015	White WB stability exception.
Cloverdale Paint (952)	No	79-426		2002	
Cloverdale Paint (952)	No	62350, 62352		2020	White WB (Trial use till December 2026)
Vogel Paint (1304)	No	UC 15-47944	69	2018	2017
International Striping Products	No	KW-1802	-	2018	White WB (Trial use till December 2026)
International Striping Products	No	Premium KW-29, Regular KW1801, DW08 Low Temp	<150 g/lit	2024	ArcticLine WB (Trial use till March 2026)
PolyMight International Inc.	-	10-3008	-	2018	White WB (Trial use till December 2026)
PolyMight International Inc.	-	10-3038	-	2018	White WB (Trial use till December 2026)
CPC Paintech	-	CPC 8201	-	2018	White WB (Trial use till December 2026)
Ozark Materials (1327)	-	17255	-	2019	White WB
Swarco/Colorado Paint Company (947)	-	1110	-	2019	White WB High Build (Trial use till December 2026)
Swarco/Colorado Paint Company (947)	-	1160	-	2019	White WB Acrylic (Trial use till December 2026)
Vantac (1373)	-	VGWB01W	-	2022	White WB [warm weather only] (Trial use till December 2026)
Gentem Inc.	-	GT 5001	-	2025	White WB (Trial use till March 2027)
Sherwin Williams Inc.	-	TM 2151 Hotline Fast Dry	-	2025	White WB (Trial use till May 2027)

## YELLOW TRAFFIC PAINT (WATER BASED)

Supplier	Contains Lead Pigment	Formulation	VOC g/l	Year Accepted	Last Year Used / Notes
Vogel Paint (1304)	No	UC35-47957	69	2018	2017
Ennis-Flint Paint (1030)	No	983712	103	2015	Yellow WB
Ennis-Flint Paint (1030)	No	984422	91	2015	Yellow WB high build
Ennis-Flint Paint (1030)	No	985352	96	2015	Yellow WB low temp
Ennis-Flint Paint (1030)	No	980202	91	2015	Yellow WB stability exception.
International Striping Products	No	KY-1802	-	2018	Yellow WB (Trial use till December 2026)
International Striping Products	No	Premium KY-29, Regular KY1801, DY08 Low Temp.	<150 g/lit	2024	ArcticLine WB (Trial use till March 2026)
PolyMight International Inc.	-	10-3009	-	2018	Yellow WB (Trial use till December 2026)
PolyMight International Inc.	-	10-3039	-	2018	(Trial use till December 2026)
CPC Paintech	-	CPC 8202	-	2018	Yellow WB (Trial use till December 2026)
Ozark Materials (1327)	-	27255	-	2019	Yellow WB
Swarco/Colorado Paint Company (947)	-	1116	-	2019	Yellow WB High Build (Trial use till December 2026)
Swarco/Colorado Paint Company (947)	-	1166	-	2019	Yellow WB Acrylic (Trial use till December 2026)
Cloverdale Paint (952)	No	62351, 62353		2020	Yellow WB (Trial use till December 2026)
Vantac (1373)	-	VGWB01Y	-	2022	Yellow WB [warm weather only] (Trial use till December 2026)
Gentem Inc.	-	GT 5002	-	2025	Yellow WB (Trial use till March 2027)
Sherwin Williams Inc.	-	Hotline Fast Dry TM 2153	-	2025	Yellow WB (Trial use till April 2027)

## URETHANE INJECTION CRACK SEALERS

ACCEPTED PRODUCTS	ACCEPTED PRODUCTS
Miton 700 (144)	Miton 773 (140)

## **WIRE ROPE**

**Any product which meets the requirements of the Ministry of Transportation and Infrastructure Standard Specification for Highway Construction – under the same heading, qualifies under this section.**