

TOGE asphalt screw TSM A

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Material

- corrosion protection-coated steel
as per corrosiveness category C5-I medium
TOGE-KORR - TSM B/BC

Base material

- all conventional asphalt types

Product features

- quick installation
- transmission of force to asphalt via undercut technology
in conjunction with a chemical mortar
- high transmission of force with repeated shock load
- no transmission of continual tension force thanks to the
flow properties of the asphalt

Applications

- fastening of crash barriers
- protective guard fastening
- traffic sign fastening

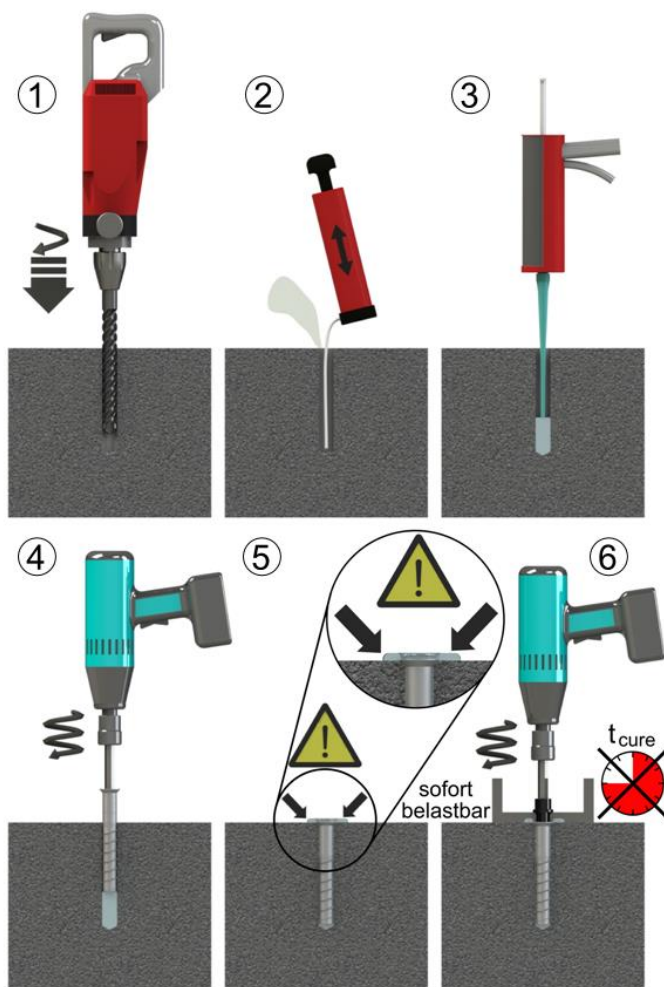


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Technical characteristics			TSM A		
			16x100	22x100	22x155
drill bit diameter	d_0	[mm]	16	22	22
depth of drill hole	h_1	[mm]	110	110	165
minimum thickness of member	$h_{min} \geq$	[mm]	150	150	200
embedment depth of anchor	h_{nom}	[mm]	100	100	155
fastening screw used			M 10x30	M16x40	M16x40
strokes ATA 2004			1	1-2	2-3
cartridge is sufficient			27	25	17
maximum shock load	F	[kN]	40	50	80



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Installation instruction:

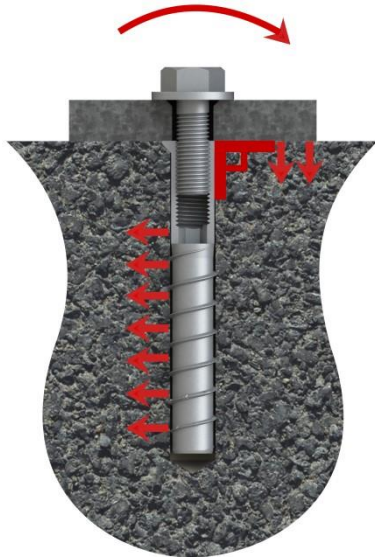
- 1) Create drill hole
- 2) Clean out drill hole from the base
- 3) Inject composite mortar
- 4) Screw in asphalt screw
- 5) After reaching the specified screw-in depth, the composite mortar must extrude at the asphalt surface
- 6) The fixture can be installed immediately; the curing time of the composite mortar need not be taken into account

temperatur of base material	processing time	curing time
≥ 0°C	180 min	72h
≥ 10°C	120 min	24h
≥ 20°C	30 min	10h
≥ 30°C	20 min	6h
≥ 40°C	12 min	4h



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Funktionsprinzip der Verankerung



1. The 90° principle

The collar of the anchor is braced against the base plate at an angle of 90°. If the torque acts, the system is tilted. This is prevented by the asphalt. A vertical pull out of the anchor is not possible.

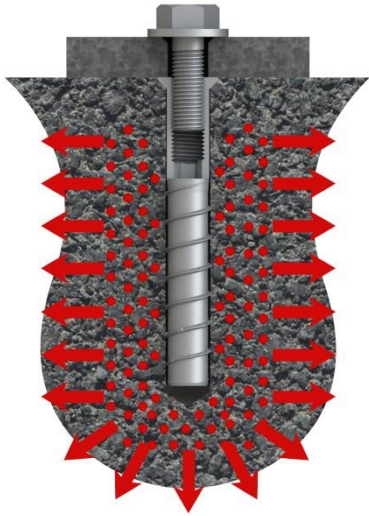


2. The undercut

The special thread of the anchor cuts an internal thread into the member while setting. The anchorage is characterised by mechanical interlock in the special thread.

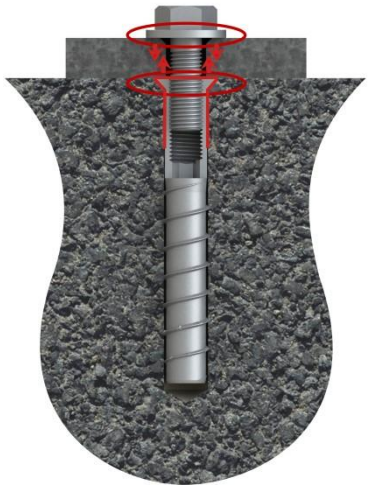


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3. The chemical component

The air voids that are present in the asphalt will be filled with chemical component. This results a homogeneous material in force influence area

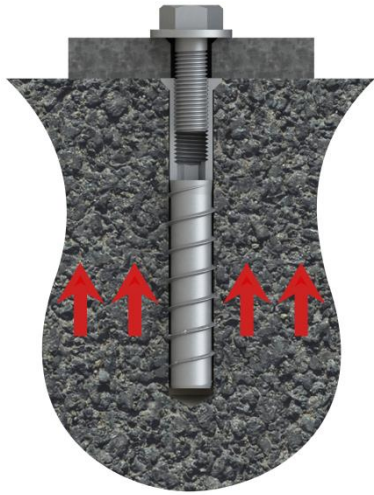


4. Preloaded free anchoring

The collar of TSM A is larger than the clearance hole in the fixture. The base plate is clamped between the collar and the head of the fastening screw. Thus, the TSM A remains unencumbered.



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5. Large surface

In case of shock load, there is no limited outbreak as in concrete.
There is a much greater active surface.

6. no overhanging loads

The anchoring system is not suitable for a
permanent tensile load

