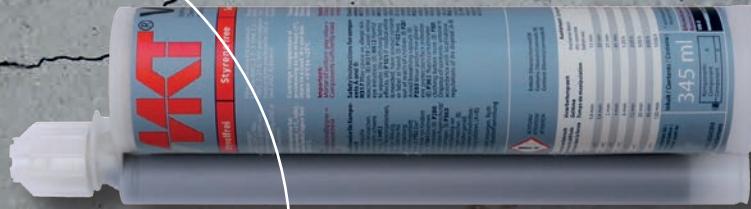


MKT Injection System VMH

For maximum loads in cracked and non-cracked concrete



... a solid connection

Injection System VMH

For maximum loads in cracked and non-cracked concrete



345 ml



280 ml

420 ml

825 ml

The MKT Injection System VMH for highest permissible loads in cracked and non-cracked concrete, has been further improved in its performance, so that now up to 30% higher load capacities are available. It consists of a styrene-free hybrid injection mortar and the existing anchor rods VMU-A, V-A or the internally threaded sleeves VMU-IG. Likewise, commercially available threaded rods with acceptance certificate 3.1 (for example MKT VM-A) or reinforcing steels can be used.



Advantages

- Maximum permissible loads from M8 through M30 (IG M6 - IG M20) in cracked and non-cracked concrete
- Versatile use due to wide choice of MKT Anchor rods (VMU-A, V-A) and internal threaded sleeves (VMU-IG) or by using commercially available threaded rods with acceptance test certificate 3.1 (for example MKT VM-A)
- Variable anchoring depths allow flexibility to adapt to the specific load requirement
- Ability to save cost due to maximum load capacity
- Approved under seismic loading of classes C1¹⁾ and C2¹⁾
- Drill hole with hammer drill, pneumatic drill or suction drill
- High short-term temperature resistance up to +160°C for fixings exposed to high heat.
- Base materia temperature during installation -5°C to +40°C, even in damp concrete
- Opened cartridges can continue to be used with a new static mixer

¹⁾ Dimensions and materials: see ETA-17/0716 and delivery program 2019.

Injection adhesive VMH

Designation	Ref. No.	Contents ml	Content of master box pcs
Cartridge VMH 280 ¹⁾	28251501	280	12
Cartridge VMH 345	28253501	345	12
Cartridge VMH 420	28257501	420	12
Cartridge VMH 825	28259501	825	8
Static mixer VM-XH	28304801	-	12
Mixer extension VM-XE 10/200	28306011	-	12
Mixer extension VM-XE 10/500	85951101	-	10
Mixer extension VM-XE 10/1000	85952101	-	10

One static mixer per cartridge is included.

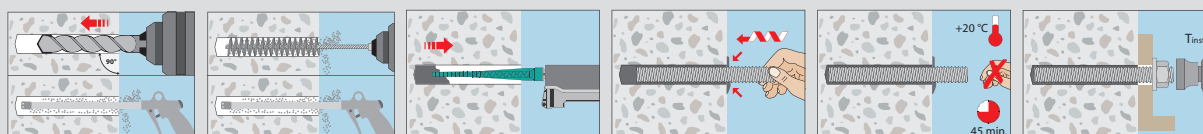
¹⁾ Two mixers are included per VMH 280 cartridge.

Curing Time

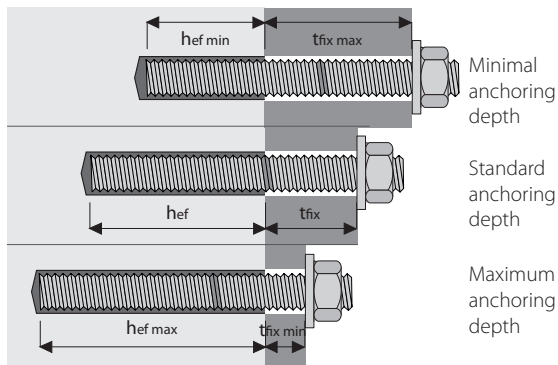
Temperature in drilled hole ²⁾	Max. Processing time	Curing time	
		Dry anchoring ground	Damp anchoring ground
-5°C to -1°C	50 min	5 h	10 h
0°C to +4°C	25 min	3,5 h	7 h
+5°C to +9°C	15 min	2 h	4 h
+10°C to +14°C	10 min	1 h	2 h
+15°C to +19°C	6 min	40 min	80 min
+20°C to +29°C	3 min	30 min	60 min
+30°C to +40°C	2 min	30 min	60 min

²⁾ Cartridge temperature during processing from +5°C to +40°C

Installation threaded rod in concrete

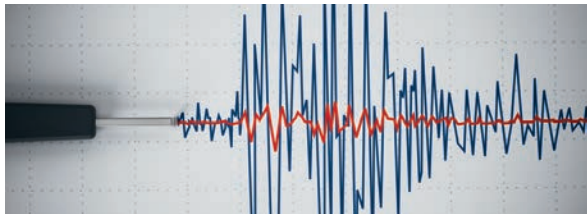


Variable anchoring depth:



The variable anchoring depths of the MKT Injection System VMH allows the highest loads as well as the flexibility to adapt to each mounting situation.

Approved under seismic action



In conjunction with MKT anchor rods VMU-A, V-A or with standard anchor rods with Inspection certificate 3.1, the MKT Injection System VMH is also approved for seismic loads of category C1¹⁾ and C2¹⁾.

For higher results in seismic loading, the annular gap between anchor rod and fastening element can be filled by using the filling washer.



Filling Washer VS

For subsequent reinforcement connection

The injection system VMH is highly suitable and also approved as a quick-setting system for subsequent rebar connections.

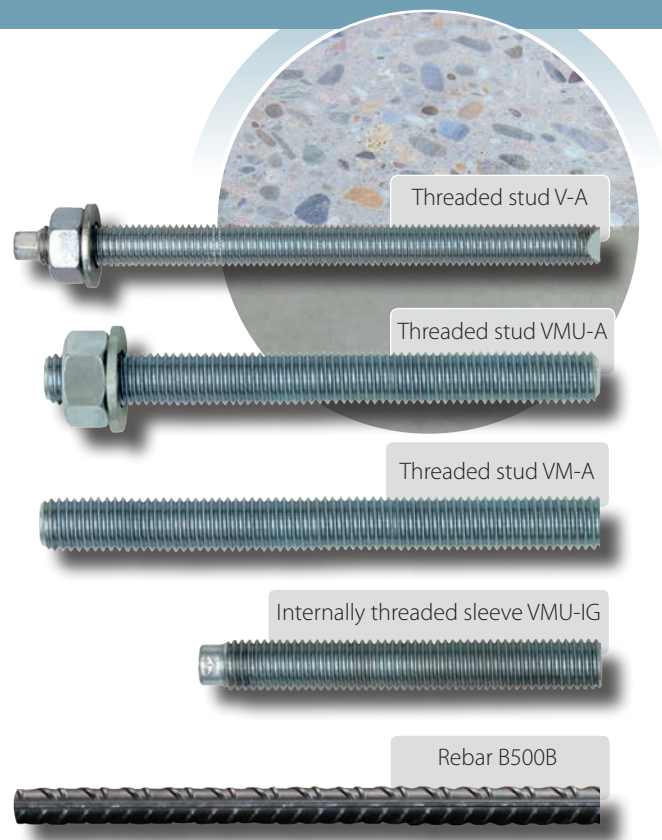
Application examples for subsequent reinforcement connection:

Ceiling and wall connections, structural reinforcements, structural supplements, structural extensions, connection of balconies and canopies, subsequent production of „forgotten“ reinforcement bars.



Rebar B500B

Tension Anchor ZA



Threaded stud V-A

Threaded stud VMU-A

Threaded stud VM-A

Internally threaded sleeve VMU-IG

Rebar B500B

Versatile in application

With a large selection of MKT anchor rods (VMU-A, V-A) and internally threaded sleeves (VMU-IG) or by using commercially available threaded rods with acceptance test certificate 3.1 (for example, MKT VM-A), every requirement can be met.

The internally threaded sleeves allow a particularly aesthetic attachment with different screw head shapes, as well as a flush surface after removing the fixture.

Application examples for anchorages of heavy loads in cracked and non-cracked concrete:

Steel structures, railings, base plates, supports, consoles, facade structures.

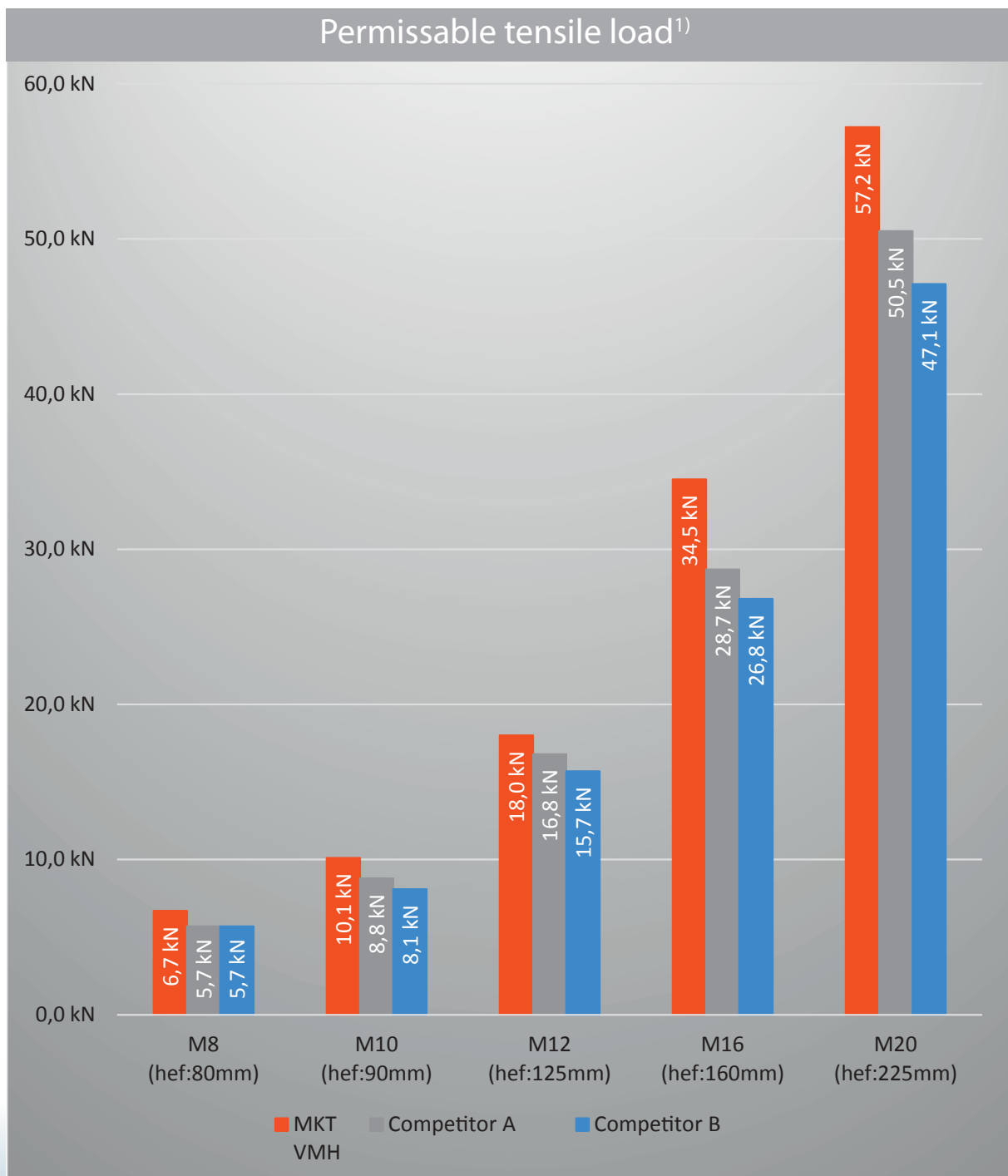
Application examples for reinforcing steel in cracked and non-cracked concrete with shear forces:

Shear mandrels, wall connection reinforcement, concreting joints.



¹⁾Dimensions and materials: see ETA-17/0716 and product range 2019.

The MKT injection system comparison



¹⁾Permissible tensile loads (static or nearly static) without influence of axial and edge distances in cracked concrete C20/25 in the temperature range -40°C to +50°C/+80°C (max. long-term temperature/max. short-term temperature) in conjunction with galvanised steel anchor rods 8.8