

TRUTEK TCM A ARCTIC WINTER INJECTION RESIN

Usage:

- sticking threaded and reinforcing bars in concrete, non-cracked concrete and natural stone
- fastening all types of building structures and supporting columns
- fixing railings and handrails
- fixing barriers, acoustic screens and road infrastructure elements
- assembly of machines and devices

Advantages:

- transfer of high loads in non-cracked concrete
- does not react with chemicals and water after curing
- Can be used at a substrate temperature of -20°C
- resin can be dispensed even if the resin container has a minimum temperature -20°C
- unscented resin - does not contain styrene
- resin available in 380ml tubes
- wide range of TCS anchor rods range, galvanized steel, hot-dip galvanized steel, A2, A4 stainless steel and stainless steel with increased corrosion resistance 1.4529



Resin setting times

Substrate temperature	°C	+30	+20	+10	0	-10	-20
Gel time	min.	2	3	5	15	45	240
Cure time in dry concrete	hour.	0,33	0,5	1	2,5	16	24
Cure time in wet concrete	hour.	0,66	1	2	6	32	48

The temperature of the resin container must be $\geq -20^{\circ}\text{C}$

Anchor rod material:

Threaded rods are made of carbon steel in the mechanical properties class 4.6, 4.8, 5.6, 5.8, 8.8, 10.9 and 12.9 are covered with a layer of galvanic zinc coating min. $5\mu\text{m}$ or fire up to $45\mu\text{m}$. Threaded rods in stainless steel, class A2, A4 and HCR. Class B and C reinforcing bars

Substrate material:

Non-cracked concrete, class C20 / 25 to C50 / 60;

Injection resin TCM A with threaded rods

Resin / type of anchored rod	TCM A / TCS threaded rod steel grade 5.8					
Rod diameter d [mm]	M8	M10	M12	M16	M20	M24
Pulling load capacity N_{Rd} [kN] (uncracked concrete)	7,8	11,0	14,9	19,3	30,5	41,4
Design shear resistance V_{Rd} [kN] (uncracked concrete)	7,2	12,0	16,8	31,2	48,8	70,4
Hole / drill diameter d_o [mm]	10	12	14	18	24	28
Nominal effective anchorage depth h_{ef} [mm]	80	90	110	125	170	210
Substrate thickness h_{min} [mm]	110	120	140	165	220	270
Minimum spacing between anchors s_{min} [mm]	40	50	60	80	100	120
Minimum distance from the edge c_{min} [mm]	40	50	60	80	100	120
Required tightening torque T_{inst} [Nm]	10	20	30	60	90	140
Approximate amount of resin per hole in [ml]	3,7	5,1	7,4	11,1	38,9	56,8
Number of mounts from one tube - capacity 380ml	102,7	74,5	51,3	34,2	9,7	6,7

Technical data Trutek TCM A based on the strength of concrete C20 / 25 (according to PN-EN 206-1: 2003).

The entire European Technical Assessment No. ETA-19 / should be taken into account when designing

Injection resin TCM A with reinforcing bars

Resin / type of anchored rod	TCM A / reinforcing bar						
Rod diameter d [mm]	Ø 8	Ø 10	Ø 12	Ø 14	Ø 16	Ø 20	Ø 25
Pulling load capacity N_{Rd} [kN] (uncracked concrete)	6,1	8,6	12,6	14,9	14,9	25,4	39,2
Design shear resistance V_{Rd} [kN] (uncracked concrete)	9,4	14,4	20,6	28,0	34,8	57,5	90,0
Hole / drill diameter d_o [mm]	12	14	16	18	20	25	32
Nominal effective anchorage depth h_{ef} [mm]	80	90	110	125	125	170	210
Substrate thickness h_{min} [mm]	110	120	140	155	160	210	260
Minimum spacing between bars s_{min} [mm]	40	50	60	70	80	100	125
Minimum distance from the edge c_{min} [mm]	40	50	60	70	80	100	125
Approximate amount of resin per hole in [ml]	8,3	11,2	16,0	21,6	38,5	84,9	114,1
Number of mounts from one tube - capacity. 380ml	45,7	33,9	23,7	17,6	9,8	4,4	3,3

Technical data Trutek TCM A based on the strength of concrete C20 / 25 (according to PN-EN 206-1: 2003).

The entire European Technical Assessment No. ETA-19 / should be taken into account when designing

Chemical anchor rods and accessories

Rod Diameter d [mm]	Hole Diameter d _o [mm]	Minimum substrate thickness h _{min} [mm]	Hole Depth h ₁ [mm]	Anchor rod TCS steel class 5.8 or 8.8*	Anchor rod TCS G steel class 5.8 or 8.8* Hot Dipped Galvanised	Anchor rod TCS SS stainless steel A2-304	Anchor rod TCS SSA4 stainless steel A4-316	Hole Cleaning Brush TCB	Drill Bits
8	10	110	80	TCS08110	TCS08110G	TCS08110SS*	TCS08110SSA4	TCB13	TCP10160
10	12	120	90	TCS10130	TCS10130G	TCS10130SS*	TCS10130SSA4	TCB13	TCP12160
12	14	140	110	TCS12160	TCS12160G	TCS12160SS*	TCS12160SSA4	TCB18	TCP14210
16	18	165	125	TCS16190	TCS16190G	TCS16190SS*	TCS16190SSA4	TCB18	TCP18310
20	24	220	170	TCS20260	TCS20260G	TCS20260SS*	TCS20260SSA4	TCB28	TCMU24340
24	28	310	210	TCS24300	TCS24300G	TCS24300SS*	TCS24300SSA4	TCB28	TCMU28340

* anchor rods available on request

Battery Dispenser
TCM420MT



Dispenser TCM 410MT



Mixer Nozzle TCN01 i
Nozzle extension TEN01



Hole Cleaning Brush TCB i
Blow Out Pump TBP

