

TRUTEK TCM PE INJECTION RESIN

Usage:

- sticking threaded and reinforcing bars in concrete, non-cracked concrete and natural stone
- gluing threaded M12-M24 and reinforcing bars $\phi 12$ - $\phi 25$ in cracked concrete
- gluing M20 and M24 stainless steel fasteners A2 or A4 when reinforcing the sandwich panel according to AT-15-8971 / 2016
- fixing all types of building structures
- fixing of port wharf infrastructure
- barrier fixing barriers, acoustic screens and barriers for the road infrastructure
- assembly of heavy machinery and equipment
- fixing threaded and reinforcing bars into holes drilled with percussion, percussion technique with automatic discharge of drill cuttings or diamond technique and into holes flooded with water

Advantages

- transfer of the highest loads in cracked and non-cracked concrete
- high adhesion and low resin shrinkage ensure maximum bond strength
- possibility of sticking rods to different depths
- does not react with chemicals and water after curing
- WRAS certificate allows the use of resin for fastening drinking water installations
- aging-resistant resin
- odorless resin - does not contain styrene,
- extended gel and bonding time allows deep bonding of threaded and reinforcing bars
- wide range of TCS anchor rods range, galvanized steel, hot-dip galvanized steel, A2, A4 stainless steel and HCR stainless steel with increased corrosion resistance 1.4529
- 24 months of shelf life
- economical 400ml container



		Resin setting times							
Temperatura podłoża	°C	+40	+30	+25	+20	+15	+10	+5	
Czas żelowania	min	18	20	22	25	28	32	70	
Czas utwardzania w suchym betonie	godz.	12	16	17	18	30	40	60	
Czas utwardzania w mokrym betonie	godz.	24	32	34	36	60	80	120	

The temperature of the container with the resin should be between + 15 ° C and + 35 ° 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 μ m or fire up to 45 μ m. Threaded rods in stainless steel, class A2, A4 and HCR, classes 50, 70 and 80. Reinforcing bars, class B and C.

Substrate material:

Cracked and non-cracked concrete class C20 / 25 to C50 / 60;

Injection resin TCM PE with threaded rods

Resin / type of anchored rod	TCM PE / TCS threaded rod steel class 5.8						
	M8	M10	M12	M16	M20	M24	
Pulling load capacity N_{Rd} [kN] (uncracked concrete)	9,0	13,6	31,0	42,4	76,9	110,8	
Design shear resistance V_{Rd} [kN] (uncracked concrete)	7,2	12,0	16,8	31,2	48,8	70,4	
Pulling capacity N_{Rd} [kN] (cracked concrete)	-	-	13,5	21,2	41,0	59,1	
Design shear resistance V_{Rd} [kN] (cracked concrete)	-	-	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]	160	200	240	320	400	480	
Minimum anchorage depth $h_{ef,min}$ [mm]	80	90	110	125	170	210	
Maximum anchorage depth $h_{ef,max}$ [mm]	60	60	70	80	90	96	
Min. Substrate thickness h_{min} [mm]	110	120	140	165	220	270	
Minimum spacing between anchors s_{min} [mm]	40	40	60	80	100	120	
Minimum distance from the edge c_{min} [mm]	40	40	60	80	100	120	
Required tightening torque T_{inst} [Nm]	10	15	40	80	120	160	
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 400ml	108	78	54	36	10	7	

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

The entire European Technical Assessment ETA-19 should be taken into account when designing /

Injection resin TCM PE with reinforcing bars

Resin / type of anchored rod	TCM PE / reinforcing bar						
	Ø 8	Ø 10	Ø 12	Ø 14	Ø 16	Ø 20	Ø 25
Rod diameter d [mm]							
Pulling load capacity N_{Rd} [kN] (uncracked concrete)	12,0	17,4	26,5	33,9	37,7	64,0	101,3
Design shear resistance V_{Rd} [kN] (uncracked concrete)	9,3	14,6	20,6	28,0	36,6	57,3	90,0
Pulling load capacity N_{Rd} [kN] (cracked concrete)	-	-	14,4	18,4	20,4	34,7	54,8
Design shear resistance V_{Rd} [kN] (cracked concrete)	-	-	20,6	28,0	36,6	57,3	90,0
Hole / drill diameter d_o [mm]	12	14	16	18	20	24	32
Nominal effective anchorage depth h_{ef} [mm]	80	90	110	125	125	170	210
Minimum anchorage depth $h_{ef,min}$ [mm]	60	60	70	75	80	90	100
Maximum anchorage depth $h_{ef,min}$ [mm]	160	200	240	280	320	400	500
Substrate thickness h_{min} [mm]	110	120	140	155	160	210	260
Minimum spacing between bars s_{min} [mm]	40	40	60	60	80	100	120
Minimum distance from the edge c_{min} [mm]	40	40	60	60	80	100	120
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 400ml	48	35	25	18	10	4,7	3,5

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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 dip galvanized	Anchor rod TCS SS stainless steel A2-304	Anchor rod TCS SSA4 stainless steel A4-316	Hole Cleaning Brush TCB	Drills Bits
8	10	110	80	TCS08110	TCS08110G	TCS08110SS*	TCS08110SSA4	TCB13	TCPP10160
10	12	120	90	TCS10130	TCS10130G	TCS10130SS*	TCS10130SSA4	TCB13	TCPP12160
12	14	140	110	TCS12160	TCS12160G	TCS12160SS*	TCS12160SSA4	TCB18	TCPP14210
16	18	165	125	TCS16190	TCS16190G	TCS16190SS*	TCS16190SSA4	TCB18	TCPP18310
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
TCM600AKU



Dispenser TCM 410MT



Resin mixer TCN01 i
Mixer extension TEN01



Hole cleaning brush TCB i pompka do
Blow out Pump TBP

