

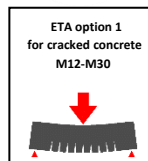
## INJECTION RESIN TRUTEK TCM RE

### Usage:

- sticking threaded and reinforcing bars in cracked and non-cracked concrete
- pasting reinforcing bar primers
- anchoring of heavy steel structures, bearing columns, silos, fasteners of the concrete overlay
- fixing wharf infrastructure
- assembly of heavy machinery and equipment
- gluing in holes made using the diamond technique and holes flooded with water
- anchorages in the C1 and C2 seismic zone

### Advantages:

- transferring the highest loads in cracked and non-cracked concrete
- high adhesion and low resin shrinkage ensure maximum bond strength
- the possibility of using different depths for sticking bars
- high chemical resistance - after curing, it does not react with chemicals and water
- WRAS certificate allows for use in the vicinity of drinking water installations
- recommended for anchorages in seismic zones of category C1 and C2
- the resin can be used in water-flooded holes and in diamond-drilled holes
- wide range of TCS anchor rods range, galvanized steel, hot-dip galvanized steel as well as stainless steel A2, A4 and stainless steel with increased resistance to co-expansion 1.4529
- unscented resin - does not contain styrene
- 24 months of shelf life
- large, economical packaging with a capacity of 585ml



Resin setting times						
Substrate temperature	°C	40	30	20	10	5
Gel time	min	12	20	30	90	120
Cure time in concrete dry	h	4	6	10	30	50
Cure time in concrete wet	h	8	12	20	60	100

### Anchor rod material:

Threaded rods are made of ordinary carbon steel in the mechanical properties class 4.6, 5.8 and 8.8 are covered with a layer of galvanic zinc coating min. 5µm or fire up to 45µm. Threaded rods in stainless steel, class A2, A4 and HCR. Class B or C reinforcing bars

### Substrate material:

Cracked or non-cracked concrete in classes C20 / 25 to C50 / 60.

### TCM RE resin and TCS threaded rods - steel class 5.8

Resin / type of anchored rod	TCM 585RE / TCS threaded rod steel grade 5.8							
	M8	M10	M12	M16	M20	M24	M27	M30
Bar diameter d [mm]								
Design load capacity for pulling out NRd [kN] (non-cracked concrete)	12,0	19,3	28,0	39,2	53,3	73,1	89,4	112,7
Shear load capacity VRd [kN] (non-cracked concrete)	7,2	12,0	16,8	31,2	48,8	70,4	92	112,0
Tensile load capacity for pulling out NRd [kN] (cracked concrete)	-	-	17,2	22,6	30,5	41,1	53,3	69,1
Shear load capacity VRd [kN] (cracked concrete)	-	-	16,8	31,2	48,8	70,4	92,0	112,0
Hole / drill diameter up to [mm]	10	12	14	18	24	28	32	35
Nominal effective anchorage depth hef [mm]	80	90	110	125	170	210	240	280
Substrate thickness hmin [mm]	110	120	140	165	220	270	310	350
Anchorage depth hef, min [mm]	64	80	96	128	160	192	216	240
Anchorage depth hef, max [mm]	96	120	144	192	240	288	324	360
Spacing between anchors scr, N [mm]	160	180	220	250	340	420	480	560
Distance from the edge ccc, N [mm]	80	90	110	125	170	210	240	280
Minimum spacing between smin anchors [mm]	40	50	60	80	100	120	135	150
Minimum distance from the edge cmin [mm]	40	50	60	80	100	120	135	150
Required tightening torque Tinst [Nm]	10	20	40	80	120	160	180	200
Approximate amount of resin per hole in [ml]	3,7	5,1	7,4	11,1	38,9	56,8	92,0	118,3
The number of attachments from one tube - capacity 585ml	158	114	79	52	15	10	6	5

Technical data Trutek TCM RE based on the strength of concrete C20 / 25 (according to PN-EN 206-1: 2003) When designing, all technical approval ETA-14/0371 must be taken into account

## TCM RE resin and reinforcing bars

Resin / type of anchored rod	TCM380PRO / reinforcing bar								
Bar diameter d [mm]	Ø 8	Ø 10	Ø 12	Ø 14	Ø 16	Ø 20	Ø 25	Ø 28	Ø 32
Design load capacity for pulling out NRd [kN] (non-cracked concrete)	15,6	22,0	29,8	39,2	39,2	53,3	73,2	89,4	125,0
Shear load capacity VRd [kN] (non-cracked concrete)	9,3	14,6	20,6	28,00	36,6	57,3	90,0	112,5	147,7
Hole / drill diameter up to [mm]	12	14	16	18	20	25	32	35	40
Nominal effective anchorage depth hef, [mm]	80	90	110	125	125	170	210	240	300
Substrate thickness hmin [mm]	110	120	140	155	160	210	260	310	380
Minimum spacing between smin bars [mm]	40	50	60	70	80	100	125	140	160
Minimum distance from the edge cmin [mm]	40	50	60	70	80	100	125	140	160
Approximate amount of resin per hole in [ml]	7,0	10,0	13,0	17	19	40	88	115	181
Number of mounts from one tube - capacity 585ml	83	58	45	34	30	14	6,6	5,0	3,2

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## Chemical anchor rods and accessories

Rod diameter d [mm]	Hole Diameter d <sub>h</sub> [mm]	Minimalna grubość podłoża h <sub>min</sub> [mm]	Hole depth h <sub>i</sub> [mm]	Anchor rod TCS steel grade 5.8 or 8.8*	Anchor rod TCS G stal steel grade 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 Bit
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
30	35	350	270	TCS30380*	TCS30380G*	TCS30380SS*	TCS30380SSA4*	TCB28	TCMU35540

\* anchor rods available on request



Applicator TCM585MT



Resin mixer TCN02 i Nozzle extension TEN01



Hole cleaning brush TCB i Blow out pump for dust extraction TBP

