



Very
High
Durability
Repair &
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Systems



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

TECNO-ANCORVINIL 380

TWO-COMPONENTS STYRENE-FREE CHEMICAL ANCHOR

Description Anchoring resin with high adhesion, for the fixation of heavy objects in concrete.

Method of use The product can be used with a normal sealant gun for 380 ml cartridges. In the extrusion phase through the special nozzle mixer the two components are mixed thereby initiating the polymerization process in the drillhole in which applied.

- Advantages**
- Optimal adhesion also in presence of water.
 - No need for premixing thanks to the special mixer
 - Re-usable cartridges for multiple applications
 - Vinyl resin with high adhesion values
 - Easy penetration in the porosity and empty cavities
 - Resistant towards static and dynamic loads
 - Shrinkage reduced to a minimum, keeps it's properties within time

Packaging Cartridge of 400 ml
Boxes of 12 cartridges

Time and temperature of application	Temperature of resin [°C]	Hardening time	Time to take into use.
		5	25'
	10	15'	4-5 h
	20	7'	3 h
	25	5'	2 h
	30	4'	1 h

Number of Fixations	FIXATION OF FULL MATERIALS		FIXATION OF PERFORATED/HOLLOW MATERIALS		
	Rebar / $d_0 \times h_{cr}$	TECNO-ANCORVINIL 380	$d_0 \times h_{cr}$	TECNO-ANCORVINIL 380	sleeve
	M8 10X90	± 72	M 8X90	± 21	GC15X85
	M10 12X95	± 52	M 10X90	± 21	GC15X85
	M12 14X115	± 34	M 12X90	± 21	GC15X85
	M16 18X130	± 21	M 16X90	± 12	GC20X85
	M20 24X175	± 7			
	M24 28X215	± 5			
	M30 35X275	± 2,5			

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Technical data and recommended loads

FIXATION OF THREADED STUDS IN ZINC STEEL MIN. CLASS 5.8 ON CONCRETE C20/25										
Rebar	Diam. hole	Embed. depth	Typical distance.	Edge distance	Minimal distance between Smin (mm)	Distance from the border or edge Cmin (mm)	Tensile load recom.	Shear load recom.	Average ultimate tensile load N _{Rum} (kN)	Average ultimate shear load V _{Rum} (kN)
8	10 mm	90 mm	170 mm	85 mm	42,5	42,5	6.2 kN	5.4 kN	19,0	11,4
10	12 mm	95 mm	180 mm	90 mm	45,0	45,0	7.7 kN	8.6 kN	30,2	18,1
12	14 mm	115 mm	220 mm	110 mm	55,0	55,0	11.1 kN	12.5 kN	41,4	26,3
16	18 mm	130 mm	250 mm	125 mm	62,5	62,5	17.5 kN	23.3 kN	54,9	48,9
20	24 mm	175 mm	340 mm	170 mm	85,0	85,0	26.0 kN	36.3 kN	88,6	76,2
24	28 mm	215 mm	420 mm	210 mm	105,0	105,0	35.0 kN	52,5 kN	122,7	110,4
30	35 mm	275 mm	540 mm	270 mm	135,0	135,0	41,7 kN	83,4 kN	152,6	175,2

FIXATION OF REBARS WITH IMPROVED ADHESION FeB44K ON CONCRETE C20/25										
Rebar	Diam. hole	Embed. depth	Typical distance.	Edge distance	Minimal distance between Smin (mm)	Distance from the border or edge Cmin (mm)	Tensile load recom.	Shear load recom.	Average ultimate tensile load N _{Rum} (kN)	Average ultimate shear load V _{Rum} (kN)
10	12 mm	115 mm	220 mm	110 mm	55	55	9.2 kN	12.1 kN	30,0	25,4
12	16 mm	150 mm	290 mm	145 mm	72,5	72,5	13.5 kN	17.4 kN	43,7	36,6
16	20 mm	165 mm	320 mm	160 mm	80	80	16.7 kN	31.0 kN	54,3	65,2
20	26 mm	225 mm	440 mm	220 mm	110	110	26.8 kN	48.4 kN	87,1	101,8
25	32 mm	275 mm	540 mm	270 mm	135	135	37.6 kN	75.7 kN	121,9	159,1

FIXATION OF THREADED STUDS IN ZINC STEEL MIN. CLASS 4.6 ON SOLID BRICK AND SOLID MASONRY									
Studs class 4.8	Diam. hole	Depth hole	Fix. Thickness	Torque	Minimal distance between Smin (mm)	Distance from the border or edge Cmin (mm)	Recomm. Tensile	Recomm. Shear	
M 8	10 mm	85 mm	10 mm	7 Nm	100	100	2,0 kN	3,0 kN	
M 10	12 mm	90 mm	20 mm	15Nm	100	100	2,6 kN	3,4 kN	
M 12	14 mm	100 mm	30 mm	25 Nm	100	100	2,8 kN	3,9 kN	
M 16	18 mm	130 mm	35 mm	30 Nm	100	100	4,0 kN	4,2 kN	

FIXATION OF THREADED BARS IN ZINC STEEL MIN. CLASS 4.6 ON HOLLOW MATERIALS									
Studs class 4.8	Diam. hole	Depth hole	Fix. Thickness	Torque	Minimal distance between Smin (mm)	Distance from the border or edge Cmin (mm)	Recomm. Tensile	Recomm. Shear	
M 8 X 100	16 mm	90 mm	10 mm	5,0 Nm	100	100	0,9 kN	2,0 kN	
M 10 X 115	16 mm	90 mm	20 mm	7,5Nm	100	100	0,9 kN	2,0 kN	
M 12 X 130	16 mm	90 mm	30 mm	10,0 Nm	100	100	0,9 kN	2,5 kN	

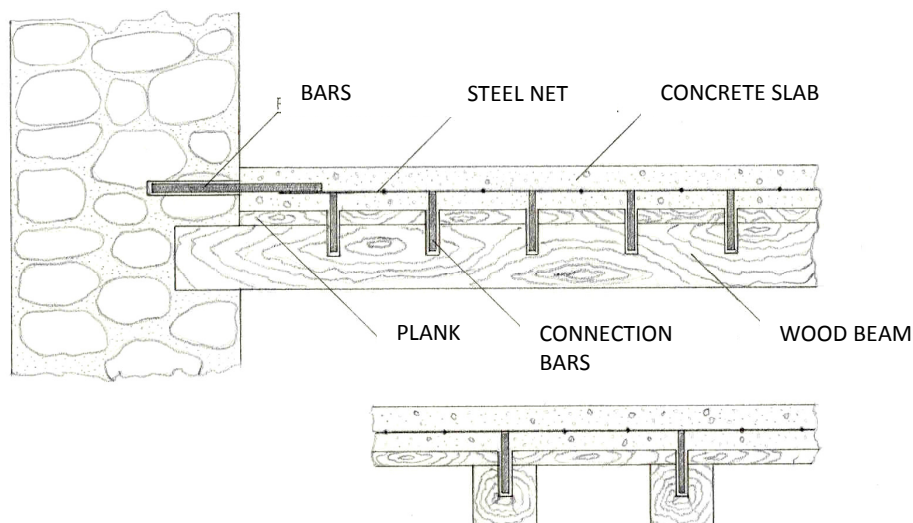
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Technical data and recommended loads



Measures threaded rods					
			M8	M10	M12
d_0	Diameter hole	mm	10	12	14
h_{cr}	Depth hole	mm	85	105	105
	Max. advised load	kN	3,2	4,2	6,1

If you need to realize anchoring with mechanical and geometrical characteristics different from those reported in the tables above, please contact the UAPP office (office for Promotion Project Support) to provide technical advice on request.

I dati sopra indicati sono basati sulle nostre attuali migliori esperienze pratiche e di laboratorio ed ai risultati derivanti dall'applicazione del prodotto nei vari campi possibili. Tecnochem Italiana non si assume alcuna responsabilità su prestazioni inadeguate o negative derivanti da un uso improprio del prodotto o per difetti derivanti da fattori od elementi estranei alla qualità del prodotto incluso l'errata conservazione.

Le caratteristiche tecniche e prestazionali contenute in questa scheda sono aggiornate periodicamente. La data di revisione della presente è indicata nello spazio sottostante. Eventuali variazioni alla presente sono rintracciabili sul nostro sito www.tecnochem.it dove sono presenti le medesime schede tecniche aggiornate in tempo reale.