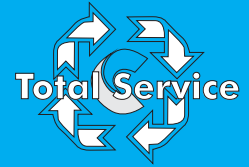


Epoxy Acrylate Styrene Free Resin



Product Description

Chemfix Epoxy Acrylate Styrene Free Low Odour Resin is a high performance, rapid curing two part chemical anchoring system based on epoxy acrylate. Applied in one single action this resin will produce a cost effective, strong, chemical resistant fixing.

Approvals



INSTYTUT TECHNIKI BUDOWLANEJ

Aprobacje Technicznej ITB nr AT-15-6835:2005

Key Features

- For use in Wet or Damp holes & Underwater.
- Good Chemical Resistance.
- Medium & Heavy Duty Load Applications.
- High Durability.
- Ideal for Indoor Usage.

Available Size

380ml 10:1 Co-axial Cartridge

Tested by:

**Imperial College
London**
Consultants

IMPORTANT NOTE:

Performance based on clean holes;
HAMMER DRILLED - blown and then brushed with a stiff metal brush & blown again.

Typical Gel and Curing Time*

BASE MATERIAL TEMPERATURE (°C)	35	25	15	5	-5
TYPICAL GEL TIME (mins)	3	6	8	18	50
MIN. LOAD TIME (mins)	20	20	20	30	90

*Figures are based on M12 fixings. Full cure is achieved after 24 hours. All Specifications are based on use of a Chemfix Mixer 14.

Typical Performance Data at Standard Embedment Depth

Size	Concrete, $f_{ck, cube} = 25N/mm^2$ (C20/25)									SETTING DATA IN SOLID SUBSTRATE			
	Characteristic Resistance (kN)		Design Resistance (kN)		Recommended Load (kN)		Characteristic Edge Distance (mm)		Characteristic Spacing (mm)	Hole Diameter In Concrete (mm)	Hole Diameter In Fixture (mm)	Standard Embedment In Concrete (mm)	Recommended Torque (Nm)
	Tension (N_{tk})	Shear (V_{tk})	Tension (N_{td})	Shear (V_{td})	Tension (N_{rec})	Shear (V_{rec})	Tension ($C_{cr,N}$)	Shear ($C_{cr,V}$)					
M8	19.0	9.5	12.7	7.6	9.1	5.4	80	100	100	10	9	80	11
M10	30.2	15.1	16.0	12.1	11.4	8.6	90	130	130	12	11	90	22
M12	43.8	21.9	20.3	17.5	14.5	12.5	110	150	150	14	13	110	38
M16	61.4	40.8	28.4	32.7	20.3	23.3	130	170	170	18	17	125	95
M20	97.6	63.7	38.9	51.0	27.8	27.7	150	190	210	24	22	170	170
M24	127.1	91.8	50.4	73.4	36.0	52.4	190	240	240	28	26	210	260
M30	179.7	207.1	71.3	166.1	50.9	118.6	300	350	350	35	33	280	480

Typical Ultimate Physical Properties

	N/mm ²	TEST METHOD	STORAGE / SHELF LIFE	IMPORTANT
COMPRESSIVE STRENGTH	62.70	(ASTM 695)	This product should be stored between +5°C & +25°C. The Shelf life of the product is 12 months from the manufacture date.	The information and data given is based on our own experience, research and testing and is believed to be reliable and accurate. However, as Chemfix Products and Multifix cannot know the varied uses to which its products may be applied, or the methods of application used, no warranty as to the fitness or suitability of its products is given or implied. It is the users responsibility to determine suitability of use. For further information please contact our Technical Department.
FLEXURAL STRENGTH	23.88	(ASTM 795)		
FLEXURAL MODULUS	3250.33	-		
TENSILE STRENGTH	12.85	(ASTM 638)		
E MODULUS	6860.33			

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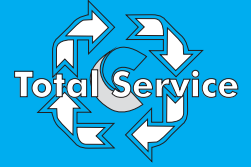
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Epoxy Acrylate Styrene Free Resin



Performance Data for Various Stud Strengths, Material and Rebar

Concrete Strength Class: C20/25 (25N/mm² Cylinder; 30N/mm² 150mm cube).

Reinforcement Bar: Minimum Yield Strength f_{yk} 460N/mm²

IMPORTANT NOTE:

Performance based on clean holes;

HAMMER DRILLED - Blown and then brushed with a stiff metal brush & blown again.

5.8 Grade Studding

Rebar Diameter (mm)	Hole Diameter (mm)	5.8 Grade Studding - Design Resistance (N _d) (kN)																	F _{d,s}					
																			hef failure (mm)	design load (kN)				
8	10	12.7																			78	12.7		
10	12		16.0	17.8	19.6	20.1															=	Steel Failure	113	20.1
12	14				20.3	22.1	24.0	25.8	27.7	29.2													159	29.2
16	20					27.0	29.3	31.5	33.8	36.0	38.3	40.5	42.8	45.0	49.5	54.1	54.4						242	54.4
Depth (mm)		80	90	100	110	120	130	140	150	160	170	180	190	200	220	240	260	280	300	350				
20	24	38.9	41.2	43.5	45.7	50.3	54.9	59.5	64.0	68.6	80.1	84.9											371	84.9
24	28				48.0	52.3	57.6	62.4	67.2	72.1	84.1	96.1	108.1	120.1	122.4								510	122.4
30	40								71.3	76.4	89.1	101.8	114.5	127.3	140.0	152.7	178.2	203.6	229.1	254.5			1096	278.9
Depth (mm)		170	180	190	200	220	240	260	280	300	350	400	450	500	550	600	700	800	900	1000				

8.8 Grade Studding

Rebar Diameter (mm)	Hole Diameter (mm)	8.8 Grade Studding - Design Resistance (N _d) (kN)																	F _{d,s}						
																			hef failure (mm)	design load (kN)					
8	10	13.0	14.6	16.2	17.8	19.5															121	19.5			
10	12		16.0	17.8	19.6	21.3	23.1	24.9	26.7	28.5	30.2	30.9									=	Steel Failure	174	30.9	
12	14				20.3	22.1	24.0	25.8	27.7	29.5	31.3	33.2	35.0	36.9	40.6	44.2	45.0						244	45.0	
16	20					27.0	29.3	31.5	33.8	36.0	38.3	40.5	42.8	45.0	49.5	54.1	58.6	63.1	67.6	78.8			372	83.7	
Depth (mm)		80	90	100	110	120	130	140	150	160	170	180	190	200	220	240	260	280	300	350					
20	24	38.9	41.2	43.5	45.7	50.3	54.9	59.5	64.0	68.6	80.1	91.5	102.9	114.4	125.8	130.7							571	130.7	
24	28				48.0	52.8	57.6	62.4	67.2	72.1	84.1	96.1	108.1	120.1	132.1	144.1	168.1	188.3						784	188.3
30	40								71.3	76.4	89.1	101.8	114.5	127.3	140.0	152.7	178.2	203.6	229.1	254.5			1096	278.9	
Depth (mm)		170	180	190	200	220	240	260	280	300	350	400	450	500	550	600	700	800	900	1000					

High Bond Reinforcing Bars $f_{yk}=500N/mm^2$

Rebar Diameter (mm)	Hole Diameter (mm)	High Bond Reinforcing Bars $f_{yk}=500N/mm^2$ - Design Resistance (N _d) (kN)																	F _{d,s}						
																			hef failure (mm)	design load (kN)					
8	12	13.0	16.2	19.4	21.9																135	21.9			
10	14		17.8	21.4	24.9	28.5	32.1	34.1													=	Steel Failure	192	34.1	
12	16			22.2	25.9	29.6	33.3	36.9	40.6	44.3	48.0	49.2											266	49.2	
14	18				28.9	33.1	37.2	41.3	45.5	49.6	53.8	57.9	62.0	66.2	66.9								324	66.9	
16	22					36.0	40.5	45.0	49.5	54.1	58.6	63.1	67.6	72.1	76.6	81.1	85.6	87.4						388	87.4
Depth (mm)		80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500					
20	28	45.7	51.5	57.2	62.9	68.6	80.1	91.5	102.9	114.4	125.8	136.6											597	136.6	
25	32			62.5	68.8	75.1	87.6	100.1	112.6	125.1	137.6	150.1	175.1	200.1	213.4								853	213.4	
32	40				81.4	95.0	108.6	122.2	135.7	149.3	162.9	190.0	217.2	244.3	271.5	298.6	325.8	349.7						1288	349.7
40	50							123.2	138.6	154.0	169.4	184.7	215.5	246.3	277.1	307.9	338.7	369.5	400.3	431.1			1774	546.3	
Depth (mm)		200	225	250	275	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400					

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