



Polyester Styrene Free Resin



Product Description

Chemfix Polyester Styrene Free Low Odour Resin is a high performance, rapid curing two part chemical anchoring system based on polyester. 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-15-6900:2006

Key Features

- For use in Concrete, Hollow Wall, Brickwork and Masonary.
- Economical Fixing Resin.
- Medium Duty Load Applications.
- Non Flammable and Non-Hazardous.
- Ideal for Indoor Usage.

Available Sizes

380ml / 400ml / 410ml 10:1 Co-axial Cartridge
 825ml 10:1 Co-axial Cartridge
 330ml / 345ml / 350ml 10:1 Co-axial Cartridge
 280ml / 300ml 10:1 Chubpac Cartridge
 150ml / 165ml / 170ml 10:1 Chubpac Cartridge
 All specifications are based on Chemfix Mixer 14

Typical Gel and Curing Time*

BASE MATERIAL TEMPERATURE (°C)	35	25	15	5	-5
TYPICAL GEL TIME (mins)	3	8	13	21	50
MIN. LOAD TIME (mins)	20	20	20	30	90

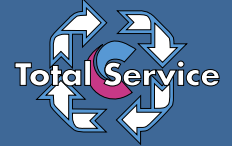
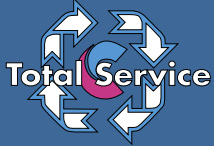
*Figures are based on M12 fixings. Full cure is achieved after 24 hours

Typical Performance Data at Standard Embedment Depth

Size	Concrete, $f_{ck, cube} = 25 \text{ N/mm}^2$ (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_{fk})	Shear (V_{fk})	Tension (N_{rd})	Shear (V_{rd})	Tension (N_{rec})	Shear (V_{rec})	Tension ($C_{ed,N}$)	Shear ($C_{ed,V}$)					
M8	20.2	10.1	8.1	8.1	5.8	5.8	80	100	100	10	9	80	11
M10	28.5	15.6	11.4	12.5	8.1	8.9	90	130	130	12	11	90	22
M12	40.5	23.1	16.2	18.5	11.6	13.2	110	150	150	14	13	110	38
M16	69.2	41.8	27.7	33.5	19.8	23.9	130	170	170	18	17	125	95
M20	89.9	66.8	40.7	53.5	29.1	38.2	150	190	210	24	22	170	170
M24	112.6	95.7	46.3	76.6	33.1	54.7	190	240	240	28	26	210	260
M30	-	-	-	-	-	-	300	350	350	35	33	280	480

Typical Ultimate Physical Properties

	N/mm ²	TEST METHOD	STORAGE / SHELF LIFE	IMPORTANT
COMPRESSIVE STRENGTH	53.55	(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 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	24.08	(ASTM 795)		
FLEXURAL MODULUS	2927.67	-		
TENSILE STRENGTH	12.48	(ASTM 638)		
E MODULUS	9651.33	-		



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Typical Performance in Hollow Substrate

SIZE	Recommended Load (kN) Tension or Shear (F_{ec})	
	Brickwork 20.5 N/mm ²	Blockwork 7 N/mm ²
M8	1.5	0.8
M10	3.0	1.5
M12	4.2	2.4
M16	5.1	3.2

Edge Distance (Concrete)

EDGE (mm)	TENSILE EDGE REDUCTION FACTORS						
	M8	M10	M12	M16	M20	M24	M30
50	0.65						
60	0.70	0.67					
70	0.75	0.71					
80	1.00	0.76	0.69				
90		1.00	0.73	0.69			
100			0.76	0.72	0.64		
110			1.00	0.75	0.6		
125				1.00	0.70	0.64	
150					0.75	0.69	
170					1.00	0.72	
190						0.76	0.67
210						1.00	0.70
240							0.74
260							0.77
280							1.00

EDGE (mm)	SHEAR EDGE REDUCTION FACTORS						
	M8	M10	M12	M16	M20	M24	M30
60	0.65						
75	0.76	0.70					
90	0.88	0.80	0.69				
100	1.00	0.87	0.75	0.68			
115		0.97	0.83	0.75			
130		1.00	0.91	0.83	0.66		
150			1.00	0.92	0.73	0.63	
170				1.00	0.80	0.69	
190					1.00	0.74	
210						0.80	0.65
240						1.00	0.71
280							0.80
300							0.84
325							0.90
350							1.00

Spacing (Concrete)

EDGE (mm)	TENSILE: SPACING REDUCTION FACTORS						
	M8	M10	M12	M16	M20	M24	M30
50	0.66						
60	0.69						
70	0.72	0.69					
80	0.75	0.72					
90	0.78	0.75	0.70				
100	1.00	0.78	0.73	0.70			
115		0.82	0.76	0.73			
130		1.00	0.80	0.76	0.69		
150			1.00	0.80	0.72	0.68	
170				1.00	0.75	0.70	
190					0.78	0.73	
210					1.00	0.75	0.69
240						1.00	0.71
280							0.75
300							0.77
325							0.79
350							1.00