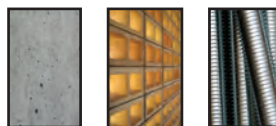


Solfix Polyester SF Resin Grout

Description:

A two component chemical anchoring injection system. A formulation derived from polyester resin with high bond strength, developed principally to anchor threaded rods into concrete, and for masonry and hollow wall installations. Used widely for medium loads in both horizontal and vertical applications.



410ml Cartridge

Characteristics:

- Suitable for medium loads for non-critical applications.
- Fast working times for early loading in time sensitive applications.
- No styrene allows for use indoors and in enclosed spaces.
- Use in damp & wet environments and fixing holes.
- Extremely versatile in masonry, hollow, aerated concrete.
- Available with colour change technology (Blue to Grey gel indicator)
- 10:1 resin available in a variety of cartridge types.

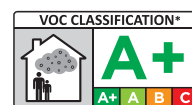
Certifications & Testing:

- 15/0008 - ETA Option 7 Non-Cracked Concrete. Includes flooded holes.
- 19/0496 - ETA - EAD 330076-00-0604 Hollow Wall / Masonry Installations
- CE Certified 1404-CPR-2585 - ZAG, Slovenia.
- CE Certified 1404-CPR-3192 - ZAG, Slovenia.
- WRAS Approved for use with Potable drinking water* approval no. 2205534
- LEED tested 2009 EQ c4.1 SCAQMD rule 1168 (2005.)
- VOC A+ Rating (Volatile Organic Content)



• PHYSICAL PROPERTIES

- Mixed Colour - Grey
- Density - 1.71 kg/m²
- Compressive Strength - 43.5 N/mm² (EN ISO 604)



TYPICAL TENSILE PERFORMANCE

Size	Recommended Load (kN)		Spacing (S _{cr,N}) (mm)	Drill Hole Ø (mm)	Fixing Hole Ø (mm)	Setting Depth (mm)
	Tension (N _{rec})	Shear (V _{rec})				
M8	8.36	5.14	160	10	9	80
M10	11.79	8.57	200	12	12	90
M12	17.29	12.00	240	14	14	110
M16	24.93	22.29	320	18	18	125
M20	38.14	34.86	400	22	22	170
M24	50.29	50.29	450	28	26	210
M30	68.07	81.43	520	35	32	280

• TYPICAL PERFORMANCE IN AERATED CONCRET

Characteristic values of resistance under tension & shear loads for Autoclaved Aerated Concrete. Compressive strength of material $f_b > 6\text{MPa}$ Temp range -40 to $+40$ C degree. PESF.

Size	Condition :	d/d	w/w & w/d	d/d, w/w & w/d
	H_{ef} (mm)	Tension (kN)	Tension (kN)	Shear (kN)
M8	80	2	1.5	5
M10	90	3	2.5	8
M12	100	4	3.5	8
M16	100	5.5	4.5	8

*Note: The values are valid for steel 5.6 or greater. For steel 4.6 and 4.8 multiply VRk,b by 0,8

• TYPICAL PERFORMANCE FOR SOLID & HOLLOW MASONR

Category c: Solid Masonry, f_b class $\geq 18\text{MPa}$ – density $\rho_m \geq 1600\text{kg/m}^3$ - Temperature range $-40^\circ\text{C}/+40^\circ\text{C}$

Size	Installation Parameters						Characteristic Resistance		Service Loads	
	d Anchor Rod \varnothing d_0 Drill Hole \varnothing (mm)	Min Edge C_{min} (mm)	Min Spacing S_{min} (mm)	Drill Depth h_1 (mm)	Embedment Depth h_{ef} (mm)	Installation Torque Moment T_{inst}	Tension Nrk (kN)	Shear Vrk (kN)	Tension F (kN)	Shear F (kN)
M6	6 / 8	120	240	85	80	2	4	6	1.14	1.71
M8	8 / 10	120	240	85	80	2	4	6	1.14	1.71
M10	10 / 12	127.5	255	90	85	2	4	7	1.14	2
M12	12 / 14	127.5	255	90	85	2	4	7	1.14	2

Category c: Hollow Masonry, f_b class $\geq 6\text{MPa}$ – density $\rho_m \geq 900\text{kg/m}^3$ - Temperature range $-40^\circ\text{C}/+40^\circ\text{C}$

Size	Installation Parameters							Characteristic Resistance		Service Loads	
	d Anchor Rod \varnothing d_0 Drill Hole \varnothing (mm)	Sleeve Type	Min Edge C_{min} (mm)	Min Spacing S_{min} (mm)	Drill Depth h_1 (mm)	Embedment Depth h_{ef} (mm)	Installation Torque Moment T_{inst}	Tension Nrk (kN)	Shear Vrk (kN)	Tension F (kN)	Shear F (kN)
M6	6 / 12	12 x 80	100	120	85	80	2	2	2	0.57	0.57
M8	8 / 12	12 x 80	100	120	85	80	2	2	2	0.57	0.57
M10	10 / 16	16 x 85	100	120	90	85	2	2	2	0.57	0.57
M12	12 / 16	16 x 85	100	120	90	85	2	2	2	0.57	1.86

• WORKING AND HARDENING TIME

Base Material Temperature	-10°C^{**}	-5°C^{**}	5°C	15°C	25°C	35°C
Gel Working Time	50'	40'	20'	9'	5'	3'
Curing Time Dry Concrete	240'	180'	90'	60'	30'	20'
Curing Time Wet Concrete	x 2	x 2	x 2	x 2	x 2	x 2

**Resin Temperature must be at least 20°C

• APPROVAL

CE 1404 Chemfix Products Ltd 2019 DoP: www.chemfix.co.uk/dop/pesf	CE 1404 Chemfix Products Ltd 2017 DoP: www.chemfix.co.uk/dop/pesf	 2205534
Chemfix PESF ETA-19/0496 EAD 330076-00-0604 Use category c,w/d - size M8-M12 1404-CPR-2586	Chemfix PESF T10P ETA-15/0008 EAD 330499-01-0601 M8 - M16 Uncracked Concrete 1404-CPR-2585	

For further information please refer to the Technical Data Sheet in the website customer area, or by request.

This product should be stored between $+5^\circ\text{C}$ & $+25^\circ\text{C}$.

Avoid Direct Sunlight

The Shelf life of the product is 18 months from the manufacture date.

Solco, Unit 51, Portmanmoor Road Industrial Estate, Ocean Park, Cardiff, CF24 5HB