



Stahlfix epoxy acrylate - 1

Product Information

Epoxy acrylate resin system is a powerful two-component fast gelling and curing system. This is based on a modified epoxy acrylate resin. Applicable in one action, this resin provides excellent characteristics for fixing in a corrosive environment.

Features

-  • Good chemical resistance
-  • Suitable for medium and heavy loads
-  • Excellent durability
-  • Suitable for outdoor applications
-  • Threaded rods and rebars

Approvals



INSTYTUT
TECHNIKI
BUDOWLANEJ
ITB-0973/W

Brick	Hollow	Concrete	Stone	Marble	Rebar	Wet
						
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓

sizes 300ml / 380ml

Gel and cure times

**Resin temperature must be at least 20°C

Base material temperature (°C)	35	25	15	5	-5	-10**
Gel time (min.)	3	6	8	19	50	60
Curing time (min.)	20	20	20	30	90	180

Typical performance data for standard embedment depth (single threaded rod or rebar)

Ø (mm)	Steel grade 5.8 / Concrete, C20/25										Standard data			
	Characteristic Load (kN)		Design Load (kN)		Recommended Load (kN)		Characteristic Edge Distance (mm)		Characteristic Spacing (mm)	Ø Hole diameter in concrete (mm)	Ø Hole diameter in fixture (mm)	Standard embedment (mm)	Recommended torque (Nm)	
	Tensile (N)	Shear (V)	Tensile (N)	Shear (V)	Tensile (N)	Shear (V)	Tensile (C)	Shear (C)						
8	15.2	9.5	8.1	7.6	5.8	5.4	80	100	160	10	9	80	11	
10	22.7	15.1	12.6	12.1	9.0	8.6	90	130	180	12	11	90	22	
12	38.8	21.9	19.7	17.5	14.1	12.5	110	150	220	14	13	110	38	
16	53.6	40.8	28.9	32.7	20.7	23.3	125	170	250	18	17	125	95	
20	68.6	63.7	41.1	51.0	29.4	36.4	170	190	340	24	22	170	170	
24	91.7	91.8	48.9	73.4	34.9	52.4	210	240	420	28	26	210	260	
30	151.2	207.1	80.6	166.1	57.6	118.6	280	350	560	35	33	280	480	

Typical ultimate physical properties

	N/mm ²	Test method	Storage / Shelf life	IMPORTANT
Compressive strength	58.91	(EN ISO 604) / (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. Avoid direct sunlight.	The information and data given is based on our own experience, research and testing and is believed to be reliable and accurate. However, as Stahlfix 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	23.68	(EN ISO 178) / (ASTM 795)		
Flexural modulus	3340.00	-		
Tensile strength	12.25	(EN ISO 527) / (ASTM 638)		
E modulus	10235.43	-		

Stahlfix epoxy acrylate - 2

Characteristic (Vrk) & design (Vrd) shear loads for various threaded rod grades + rebar

Ø Threaded rod Diameter (mm)	Steel grade 5.8		Steel grade 8.8		Steel grade 10.9		Steel grade A4-70		Steel grade A4-80		Rebar Ø (mm)	Bst 500	
	Vrk (kN)	Vrd (kN)	Vrk (kN)	Vrd (kN)	Vrk (kN)	Vrd (kN)	Vrk (kN)	Vrd (kN)	Vrk (kN)	Vrd (kN)		Vrk (kN)	Vrd (kN)
8	9.5	7.6	14.6	11.7	19.0	15.2	12.8	8.2	14.6	9.4	8	16.6	11.1
10	15.1	12.1	23.2	18.6	30.2	24.1	20.3	13.0	23.2	14.9	10	25.9	17.3
12	21.9	17.5	33.7	27.0	43.8	35.1	29.5	18.9	33.7	21.6	12	37.3	24.9
16	40.8	32.7	62.8	50.2	81.6	65.3	55.0	32.5	62.8	40.3	14	50.8	33.9
20	63.7	51.0	98.0	78.4	127.4	101.9	85.8	55.0	98.0	62.8	16	66.4	44.3
24	91.8	73.4	141.2	113.0	183.6	146.8	123.6	79.2	141.2	90.5	20	103.9	69.3
30	207.1	166.1	207.6	166.1	269.9	215.9	129.8	64.9	207.6	103.8	25	162.0	108.0
											32	265.1	176.7
											40	414.6	276.4

Notes:

- All grades shown for information.
- M30 threaded rodding is 8.8 grade instead of 5.8 grade
- M30 for A4-70 tensile strength of 500N/mm², instead of 700N/mm².
- Security factor of 1.25 for steel
- Security factor of 1.56 for stainless steel, for M30 = Security factor of 2.0
- Security factor of 1.5 for Rebar BSt 500.



