

DESCRIPTION

ProV150 styrene free vinylester resin is a two component, fast curing injection mortar system. Based on HEMA and Ethylene Dimethacrylate, the product gives high performance for both threaded rod and rebar applications.

PRODUCT FEATURES

- Cures at -15°C
- Non flammable.
- Excellent chemical resistance.
- Suitable for underwater applications.
- Mild odour.
- Suitable for close to the edge application.
- Suitable for hollow base materials including concrete, brick and stone.
- Available in 380ml tubes.

SETTING DETAILS

Anchor Rod	Drill Bit Diameter	Embedment Depth	Rebar Diameter	Drill Bit Diameter	Embedment Depth
M8	10mm	80mm	10mm	12-14mm	165mm
M10	12mm	90mm	12mm	14-16mm	190mm
M12	14mm	110mm	14mm	18-20mm	220mm
M16	18mm	125mm	16mm	20-22mm	250mm
M20	24mm	180mm	20mm	25-28mm	310mm
M24	28mm	220mm	25mm	30-32mm	390mm

Temperature °C	-15	-10	-5	0	5	10	15	20	25	>30
Gel Time (min/hrs)	5hrs	3hrs	40	20	15	12	9	6	4	2
Setting Time (min/hrs)	24hrs	20hrs	150	120	105	90	75	60	45	35

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TECHNICAL TEST DATA
Tests conducted with zinc plated threaded rod grade 5.8

Threaded Rod	Breaking Load (kp)	Breaking Load (kn)	Type of Failure
M8	2 486	24.37	Steel Rod
M10	4 609	45.17	Steel Rod
M12	5 854	57.37	Steel Rod
M16	7 255	71.10	Concrete Block
M20	8 296	81.30	Concrete Block

Tests conducted with rebar

Rebar Diameter	Breaking Load (kp)	Breaking Load (kn)	Type of Failure
M8	5 145	50.42	Steel Rod
M10	6 310	61.84	Concrete Block
M12	11 968	117.29	Concrete Block
M16	13 760	140.41	Concrete Block
M20	17 741	173.86	Concrete Block

Tests conducted at the Building Laboratory of Technologic and Scientific Institute of Navarra Spain

REDUCTION FACTORS WITH REGARD TO ANCHOR SPACING

Spacing (mm)	Anchor Rod Size				
	M8	M10	M12	M16	M20
40	0.70	0.67			
50	0.78	0.73	0.67		
60	0.85	0.80	0.73	0.69	
70	0.93	0.87	0.78	0.74	
80	1.00	0.93	0.84	0.78	
90		1.00	0.89	0.83	
100			0.95	0.88	
110			1.00	0.93	
120				0.95	0.68
130				1.00	0.72
140					0.75
150					0.79
160					0.82
170					0.86
180					0.89
190					0.93
200					0.96
210					1.00



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REDUCTION FACTORS WITH REGARD TO EDGE DISTANCE

Edge Distance (mm)	Anchor Rod Size				
	M8	M10	M12	M16	M20
35	0.44				
40	0.50	0.44			
45	0.56	0.50	0.41		
50	0.63	0.56	0.45	0.40	
55	0.69	0.61	0.50	0.44	
60	0.75	0.67	0.55	0.48	
65	0.81	0.72	0.59	0.52	
70	0.88	0.78	0.64	0.56	
75	0.94	0.83	0.68	0.60	
80	1.00	0.89	0.73	0.64	
85		0.94	0.77	0.68	0.41
90		1.00	0.82	0.72	0.44
95			0.86	0.76	0.47
100			0.91	0.80	0.50
105			0.95	0.84	0.53
110			1.00	0.88	0.56
115				0.92	0.59
125				1.00	0.62
140					0.65
155					0.68
160					0.74
170					0.82
180					0.91
195					0.94
210					1.00

The tables above show the reduction factors to be applied when due to design conditions, it is not possible to consider the anchor independently, either due to reduced edge distance and/or other installed anchors.

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STORAGE

Store in a cool dry place at a temperature between 5°C and 25°C. Do not expose to direct sunlight. Storing at higher temperatures will reduce the shelf life of the product

ADDITIONAL INFORMATION

This information and data is based on the experience of the manufacturers own tests and tests at independent laboratories. AIT SL cannot know the wide variety of applications that the product may be used for and as such does not constitute any kind of warranty. It is the responsibility of the end user to determine the suitability of use. For any further information please contact our Technical Department.

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