



Zetacartridge No.1 Polyester Resin

Product Information

Description

Zetacartridge No 1 is a high performance, Fast curing two-part chemical anchoring System based on unsaturated Polyester Resin in styrene. Pre-packed in a 10:1 Ratio cartridge for ease of use.

Applications

Suitable for use in concrete, brickwork and stone
Suitable for fixing wall ties, starter bars, studs & bolts
Suitable for close edge fixings
Chemically resistant, Waterproof & vibration proof.

How to use

Unscrew the cap from the cartridge and screw on the static mixer nozzle. Fit the cartridge into the applicator gun and gradually apply pressure to the trigger until the material exudes from the end of the nozzle. You should always waste the first 10ml or so of resin until you get an even colour. Insert the nozzle into the hole & gun the material out, removing the nozzle slowly as the hole fills up. Once sufficient resin is in the hole, release the pressure from the gun and place the stud to be fixed into the hole with a twisting action to ensure full contact between hole, resin & stud. Allow resin to cure fully before loading. Please see label on cartridge for full installation instructions.

Specification Data

Performance data at standard embedment depth in 25n/mm² concrete using grade 8.8 steel

Stud size	Hole size (mm)	Hole depth (mm)	Characteristic load (kn)	Recommended load (kn)	Edge distance (mm)	Spacing (mm)	Min concrete depth (mm)
M8	10	80	14.7	4.2	120	80	110
M10	12	90	26.9	7.7	135	90	120
M12	14	110	28	8	165	110	140
M16	18	125	43	12.3	190	125	170
M20	22	170	62.3	17.8	255	170	230

Gel & cure times

Temperature Deg. C	Gel time Min	Min Load Time Min.
5	12-15	140
10	8-12	100
20	5-7	70
30	3-5	50

Approximate number of fixings per cartridge

Bolt diam (mm)	Hole diam (mm)	Hole depth (mm)	380ml	150ml
8	10	80	110	30
10	12	90	60	20
12	14	110	40	12
16	18	125	20	8
20	22	170	9	4

Pack Sizes

400ml, 380ml, 300ml & 150ml Cartridge

Storage Life

At least twelve month from date of manufacture if stored between 5-20 deg. C in manufactures unopened cartridges.

Reduction Factors for Edge Spacing Distances

The full characteristic edge and spacing distances shown in the table above are the minimum allowable for the quoted information. Where these dimensions are not achievable then the appropriate reduction factor / factors from the following tables must be applied.

Edge Distance in Concrete

Tensile Edge Reduction Factors							Shear Edge Reduction Factors					
Edge												
mm.	M8	M10	M12	M16	M20	M24	M8	M10	M12	M16	M20	M24
50	0.77						0.50					
60	0.85	0.80					0.60	0.50				
70	0.92	0.87	0.78				0.70	0.58	0.50			
80	1.00	0.93	0.84				0.80	0.66	0.57			
90		1.00	0.89	0.82			0.90	0.75	0.64	0.56		
100			0.95	0.86	0.80		1.00	0.83	0.71	0.62	0.54	
110			1.00	0.91	0.84	0.77		0.92	0.78	0.69	0.61	0.50
130				1.00	0.92	0.83		1.00	0.92	0.81	0.69	0.59
150					1.00	0.90			1.00	0.94	0.81	0.68
170						0.97				1.00	0.94	0.77
190						1.00					1.00	0.86
210												0.95
240												1.00

Spacing in Concrete

Tensile & Shear Reduction Factors						
Spacing						
(mm)	M8	M10	M12	M16	M20	M24
50	0.80					
60	0.84	0.80				
70	0.88	0.83	0.80			
80	0.92	0.87	0.83			
90	0.96	0.91	0.86	0.81		
100	1.00	0.93	0.88	0.84	0.80	
110		0.97	0.91	0.87	0.82	0.79
130		1.00	0.96	0.91	0.86	0.82
150			1.00	0.95	0.90	0.85
170				1.00	0.94	0.88
190					0.98	0.92
210					1.00	0.95
240						1.00

Important

Whilst every effort is made to ensure that the information given in this data sheet is reliable, no warranty as to the fitness or suitability of the products is given or implied.

We advise customers in their own interests to ensure that this data sheet has not been superceded by a more up to date publication and to determine the suitability of use themselves..

All products are sold subject to our standard conditions of sale which are available on request.

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