



## 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 25KN concrete

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	19	4.5	120	80	110
M10	12	90	23	5	135	90	120
M12	14	110	41	7.5	165	110	140
M16	18	125	65	11	190	125	170
M20	22	170	105	20	255	170	230

#### Gel & cure times

Temperature Deg. C	Gel time Min	Min Load Time Min.
5	12-15	60
10	8-12	45
20	5-7	35
30	3-5	25

#### 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

380ml & 150ml Cartridges

#### 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

Edge mm.	Tensile Edge Reduction Factors						Shear Edge Reduction Factors					
	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

Spacing (mm)	Tensile & Shear Reduction Factors					
	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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