

# BluRez Epoxy III

## HIGH PENETRATION EPOXY RESIN

BluRez Epoxy III is a two component epoxy liquid which requires only mixing to form a low viscosity injection resin.

BluRez Epoxy III is used for structural injection and grouting repairs, general concrete repairs, as a primer for porous concrete or as a sealer for floor toppings.

### Advantages

- Low viscosity aids penetration
- Excellent surface wetting
- Solventless
- Bonds well to damp and dry surfaces
- Fast hardening

### Preparation

Evaluate joint or crack for injection. Drill holes either side of the crack, sloping towards the crack at an angle of approximately 45°, beginning at a distance of 120 - 150mm from the crack. Insert packer at a depth of approximately 100mm. If using surface mounted packers place them over the prepared crack using an approved epoxy paste.

The spacing of the packers will vary depending on the crack.

### Mixing

BluRez Epoxy III is supplied in precisely proportioned packaging ready for mixing. It is critical to the successful use of this product that part portions are not mixed. Add the two components together being sure to add the complete proportion of Part B to Part A. Mix together using a slow speed mixer (400rpm) for at least 3 minutes or until a uniform mixture is achieved.

### Application

Commence from the widest part of the crack and proceed injecting outwards along the crack in each direction.

Turn on pump and slowly increase pressure to a maximum of 10 - 15 bar. Stop pumping for every litre injected and allow 1 - 2 minutes for reaction. Start and stop injection until the packer will no longer accept material or if the specified pressure has been reached. Move to the next packer and repeat injection process. Continue injection until crack is full and has been adequately sealed. Monitor the effectiveness of the work and allow to settle for

2 - 3 days before returning to site and completing additional injection if required.

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## Product Data

Please refer to Important Notice on following page

Packaging	2 litre and 20 litre kits
Ratio	1 part hardener : 3 parts compound
Yield	4 - 8m <sup>2</sup> per litre (applied as primer) 20 lineal metres of 0.5mm x 100mm per litre (crack injection)
Viscosity	100mPa.s @ 25°C
Pot Life	60 minutes @ 25°C
Curing Times	24 hours @ 25°C
Solids Content	100%
Compressive Modulus	1.4GPa
Bond Strength (7 days)	2.7MPa (due to concrete failure)
Recommended Crack Width	≥0.2mm
Water Absorption	0.70%
Shelf Life	9 months

TESTED CHARACTERISTIC	STANDARD	RESULT
Tensile Strength (7 days)	ISO 527	60MPa
Compressive Strength (7 days)	ISO 604	105MPa
Flexural Yield Strength (7 days)	ISO 178	95MPa
Elongation	ASTM D638	10% (Average)

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