



# BluRez CSI50

## HYDROPHILIC POLYURETHANE INJECTION RESIN

BluRez CSI50 is a single component polyurethane which reacts with water to form a hydrophilic flexible seal.

BluRez CSI50 is designed for the sealing/grouting and elastic connection of fissures and cavities in buildings and other civil engineering structures constructed of concrete, brickwork and natural stone. Application uses such as tunnel linings, concrete foundations, subterranean curtains, retaining walls, slab on ground and bridge abutments. Generally, the BluRez CSI50 is most suitable for use in consistently damp or wet environments.

### Advantages

- Potable water use approved in accordance with AS/NZ 4020:2005
- Hydrophilic for high water stopping properties
- Easy to use, single pack
- Highly flexible for live structures
- Compatibility with most surfaces
- Rapid foam and gel times

### 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 - 150 mm from the crack. Insert packer at a depth of approximately 100mm. Pre-injection with water is recommended for priming and facilitation of reaction.

### Mixing

BluRez CSI50 is supplied in one component packaging ready for application.

### 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 30 bar. Stop pumping for every litre injected and allow 1 - 2 minutes for setting. 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. BluRez CSI50 may be injected into the crack with water at a ratio of 1 : 1.





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## Product Data

Please refer to Important Notice on following page

|                    |                  |
|--------------------|------------------|
| Packaging          | 20kg kit         |
| Ratio              | Single component |
| Viscosity          | 800cps @ 25°C    |
| Tensile Strength   | 2.55MPa          |
| Elongation @ Break | 400%             |
| Foaming Factor     | 3 - 3.5*         |
| Start of Foaming   | 45 seconds*      |
| Gel Time           | 55 seconds*      |
| End of Foaming     | 200 seconds*     |
| Tack Free Time     | 230 seconds*     |
| Shelf Life         | 12 months        |

\* Laboratory measurements mixed 1 part water to 3 parts BluRez CSI50 @ 25°C



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