Nitofill® LV

**Low viscosity epoxy crack injection system**

**1.00 Crack Injection System**

The crack injection system will comprise a low viscosity injection epoxy, an epoxy adhesive paste and injection flanges / ports through which the epoxy is injected into prepared non-movement cracks in concrete.

**1.10 Concrete Surface Preparation**

1.11 All contact surfaces must be free from oil, grease, free standing water or any loosely adherent material. A light grind of the surface adjacent to the crack will help remove any contamination and assist adhesion of the surface seal. All dust must be removed. Ideally, the crack should be ground out to a depth of 5mm to accept the surface seal epoxy paste and assist in penetration of the crack injection epoxy

**1.20 Low Viscosity Injection Epoxy**

1.21 The epoxy injection material shall be a low-viscosity epoxy resin, with high bond strength to damp or dry concrete, high compressive, tensile and flexural strengths, and offering chemical and weathering resistance.

The injection epoxy will be suitable for pressure injection of cracks down to 0.2 mm at the surface, tapering down to 0.1 mm internally.

The injection epoxy shall exhibit the following characteristics:

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| Compressive strength: | >55 MPa @ 1 day  >80 MPa @ 7 days |
| Tensile strength: | >25 MPa |
| Flexural strength: | >50 MPa |
| Viscosity: | 250 – 450 cps @100C  150 – 200 cps @200C  50 – 100 cps @ 300C |
| VOC content: | <35g / litre |

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1.23 The crack injection system shall be applied in accordance with the manufacturer’s product data sheet.

**1.30** **Fosroc Nitofill LV** meets the performance criteria and is approved.

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