

MasterInject 1315

Low viscosity crack injection resin

MATERIAL DESCRIPTION

A two component system based on low-viscosity epoxy resins. Ideal for sealing static cracks from widths greater than 100 microns but no more than 9mm. It is highly penetrative and cures to form a permanent and rigid seal against the ingress of corrosive fluids and gases and is capable of restoring structural integrity to concrete elements.

TYPICAL APPLICATIONS

May be used for grouting dowels in verticals holes, where clearance is 1 – 2 mm between dowel and concrete. Repair and sealing of “static” concrete cracks. The injection resin can be used to fill and bond dormant cracks in:

- Columns
- Bridge decks
- Floors
- Piers
- Abutments
- Tunnels
- Basements
- Beams
- Underpasses

ADVANTAGES

- Has a low viscosity and will penetrate deeply into very narrow cracks and cavities.
- **MasterInject 1315** injection resin has superior adhesion to dry surfaces.
- **MasterInject 1315** will enable a structural repair to be effected and offers high compressive strength. Can be used as a fluid grout up to thicknesses of 9mm.
- **MasterInject 1315** (once fully cured) will resist hydrostatic pressure and block penetration of deleterious substances.

CHEMICAL RESISTANCE

MasterInject 1315 Low Viscosity injection resin (in a fully cured state) has excellent resistance to most aqueous substances and liquids. These include:

- Sea water.
- Brackish water.
- Effluent and raw sewage.
- Acids of low concentration.
- Alkalis.
- Oils (mineral and organic).

PACKAGING - 1 LITRE KITS

Base Resin: 0.69kg
Reactor Resin: 0.4kg

SPECIFICATION CLAUSE

All cracks and voids, where indicated shall be injected with **MasterInject 1315** injection resin (specify) as manufactured by Master Builder Solutions, or similar approved. The appropriate material shall be mixed and placed in accordance with the manufacturer's recommendations.

A Master Builders Solutions technical representative or approved applicator should be consulted to assist with onsite recommendations etc.

INSTALLATION PROCEDURES

Please refer to the Master Builders Solutions Guide to Injection for the full installation details and options relevant to this product.

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperatures. In tropical climates (ambient temperature of over 35°C) the product must be stored in an air-conditioned environment. **MasterInject 1315** may be kept in cool boxes preferably bedded in ice, to extend the working time of the product. Shelf life is 12 months from date of manufacture when stored in undamaged, unopened packaging.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

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NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

TYPICAL PROPERTIES*

Colour	Water Clear
Composition	2 part solvent free epoxy resin
Specific gravity of mixed material (ASTM D1475)	1.05 kg/l
Viscosity (ASTM D2369)	204 mPa.s
Pot life*1 (ASTM D2471)	53 mins25°C 30 mins40°C
Service temp. range	-20°C to +60°C
Slant Shear Bond Strength (ASTM C-882 1990)	14 days :30 N/mm ²
Compressive strength (ASTM D695)	>70 N/mm ² at 7 days
Tensile strength (ASTM D 638)	>25 N/mm ² at 7 days
Flexural strength (BS 6319 Pt 3 1990)	>70N/mm ² at 7 days
Volatile content (ASTM D2369)	58.22 g/l
Absorption 24 hours (ASTM C413 - Method B)	0.34%

DISCLAIMER

The technical information and application advice given in this MB Construction Chemicals Solutions South Africa (Pty) Ltd publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.