

# MasterInject<sup>®</sup> 1315

Low-viscosity epoxy resins for injection grouting

## 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

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 KIT

### MasterInject 1315

Base Resin : 0.870 kg bottle

### MasterInject 1315

Reactor Resin : 0.195 kg bottle

## SPECIFICATION CLAUSE

All cracks and voids, where indicated shall be injected with **MasterInject 1315** injection resin (specify) as manufactured by Master Builders 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 on-site recommendations etc.

## PHYSICAL AND TECHNICAL PROPERTIES

Color	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 mins <sup>25°C</sup> 30 mins <sup>40°C</sup>
Service temp. range	-20°C to +60°C
Slant Shear Bond Strength (ASTM C-882 1990)	14 days :30 N/mm <sup>2</sup>
Compressive strength (ASTM D695)	>70 N/mm <sup>2</sup> at 7 days
Tensile strength (ASTM D 638)	>25 N/mm <sup>2</sup> at 7 days
Flexural strength (BS 6319 Pt 3 1990)	>70N/mm <sup>2</sup> at 7 days
Volatile content (ASTM D2369)	58.22 g/l
Absorption 24 hours (ASTM C413 - Method B)	0.34%

\*Properties listed are based on laboratory controlled tests.

\*1Note: Pot life will vary depending on storage and site conditions.

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## 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 temperature. 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.

## 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 vapor 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.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods

## QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC-Group in many countries

## CONTACT

Should you require any further information, please do not hesitate to contact us:

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The technical information and application advice given in this Master Builders Solutions 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.

#### Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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