

MasterInject[®] 1315

Two component system based on low-viscosity epoxy resins

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 affected and offers high compressive strength. Can be used as a fluid grout up to thicknesses of 9 mm
- **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

MasterInject 1315

Base Resin: 0.852 kg bottle

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Reactor Resin: 0.213 kg bottle

PHYSICAL AND TECHNICAL PROPERTIES*

Colour	Water Clear
Composition	2-part solvent free epoxy resin
Specific gravity of mixed material ASTM D1475	1.05 kg/l
Viscosity ASTM D2196	204 mPa.s
Pot life* ¹ ASTM D2471	53 min 25°C 30 min 40°C
Service temp. range	-20°C to +60°C
Slant Shear Bond Strength ASTM C-882: 1990	30 N/mm ² at 14 days
Compressive strength ASTM D695	>70 N/mm ² at 7 days
Tensile strength ASTM D638	>25 N/mm ² at 7 days
Flexural strength DIN EN ISO 178	>70 N/mm ² at 7 days

*Properties listed are based on laboratory-controlled tests.

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

APPLICATION GUIDELINES

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

SPECIFICATION CLAUSE

All cracks and voids, where indicated shall be injected with **MasterInject 1315** injection resin (specify) as manufactured by Master Builders Solutions Dubai, 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.

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STORAGE AND SHELF LIFE

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.

The shelf life is 12 months when stored as above.

HEALTH AND SAFETY

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.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

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.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

Disclaimer: the TUV mark relates to certified management system and not to the product mentioned on this datasheet



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