

MasterInject® 1315

DESCRIPTION OF PRODUCT

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.

PACKAGING

MasterInject 1315

Base Resin: 1kg

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Reactor Resin: 0.6kg

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)

SPECIFICATION CLAUSE

All cracks and voids, where indicated shall be injected with **MasterInject INJECTION RESINS** (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.

MasterInject[®] 1315

PHYSICAL AND TECHNICAL PROPERTIES:

Composition:	2 part solvent-free epoxy resin
Specific gravity of mixed material:	1.10
Pot life (1ltr):	50 minutes 20°C 30 minutes 40°C
Tack-free time	6 hours 20°C 3 hours 40°C
Final cure	10 days (35°C)
Service temperature range:	-20°C to +60°C
Bond strength (mean shear slant) ASTM C-881:	2 days: 21N/mm ² 14 days: >46N/mm ²
Compressive strength:	68N/mm ² at 24 hrs 70N/mm ² at 3 days 71N/mm ² at 7 days
Tensile strength (ASTM D 638):	21N/mm ² at 3 days 22N/mm ² at 7 days
Flexural strength:	54N/mm ² at 24 hrs 70N/mm ² at 3 days 85N/mm ² at 7 days
Volatile content %:	1.5%
Absorption 24 hours:	0.2%
Shrinkage (ASTM C881):	Passes
Permeability (cured resin):	Impermeable
Elongation at break	n/a
ASTM D638: Modulus of elasticity (DIN 53457):	n/a
Shore-A hardness DIN 53505:	n/a

*Properties listed are based on laboratory controlled tests. *1Note: Pot life will vary depending on storage and site conditions.

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.

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

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 has fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. For further information, refer to the material safety data sheet.

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 STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in The ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

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