

MasterInject® 1320

DESCRIPTION OF PRODUCT

MasterInject 1320 is a two component hydrophilic injection resin which forms an impermeable flexible seal when injected into cracks in concrete.

FIELD APPLICATIONS

- Permanent crack sealing of below ground structures such as tunnels, shafts, basements and underpasses.
- Stopping of minor water seepage.
- Can be injected after CONCRETE® 1335 in cracks where higher water flows occur.
- One time injection through injection hoses

FEATURES AND BENEFITS

- **MasterInject 1320** is based on a moisture curing MDI Isocyanate and DOES NOT require the addition of a "reactor" to activate the material
- **The product cures to form a flexible and impermeable seal where further limited movement of the concrete is anticipated**
- **It reacts under wet / damp conditions and foams upon contact with water**
- **Good bonding to damp / wet surfaces Permanent sealing effect**
- **Low viscosity – allows penetration of fine cracks**
- **Does not contain toxic TDI Isocyanate**
- **Has a low shrinkage compared to standard TDI based injection sealing products**

PACKAGING

MasterInject 1320 is available in 1 litre bottle (1.15kgs).

CHEMICAL RESISTANCE

MasterInject 1320 resin 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)
- Acids of low concentration
- Alkalis
- Oils (mineral and organic)

PHYSICAL AND TECHNICAL PROPERTIES

Composition:	2 part liquid polyurethane
Specific gravity of mixed material:	1.06
Pot life (1ltr):	45 minutes 25°C
Tack-free time	20 minutes 35°C
Final cure	
Service temperature range:	7 days (35°C) - 20°C to +80°C
Bond strength (mean shear slant) ASTM C-881:	n/a
Compressive strength:	
Tensile strength (ASTM D 638):	n/a
Flexural strength:	2N/mm ²
Volatile content %:	n/a
Absorption 24 hours:	n/a
Shrinkage (ASTM C881):	n/a
Permeability (cured resin):	n/a
Elongation at break	Impermeable
ASTM D638: Modulus of elasticity (DIN 53457):	60-80%
Shore-A hardness DIN 53505:	4.2-4.6N/mm ²
	60-80

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STORAGE

MasterInject 1320 must be stored in airtight containers in a cool, dry place. Store under cover out of direct sunlight and protect from extremes of temperature. If stored in tightly closed original containers under the above mentioned conditions the shelf life of **MasterInject 1320** is 12 months. It must be protected from freezing.

In tropical climates (ambient temperature of over 35°C) the product must be stored in a temperature controlled environment.

APPLICATION PROCEDURE

MasterInject 1320 should be injected through packers using a manual or a powered single component injection pump. Decant the amount of resin required from the unit and close the lid tightly. Frequent exposure to humidity and moisture may cause some skinning on the surface, in the unit. This skin should be removed and discarded before decanting additional resin.

The reaction time is affected by both temperature and relative humidity. In conditions of high relative humidity there may be material "skinning" within the pump hopper. Ensure that this "skin" is removed during the pumping process, do NOT allow the skin to be drawn into the pump.

When the injection processes is complete empty the pump of any remaining material and thoroughly flush it through with SOLVENT No 2. Remove the solvent and flush the pump with mineral oil leaving the working parts full of oil. Failure to follow the above cleaning procedure may lead to pump or line blockages.

Site trials should always be performed prior to commencing the works.

SHELF LIFE

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.

* Properties listed are based on laboratory controlled tests.

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