

MasterInject[®] 1320

Single component polyurethane injection resin for sealing of cracks in concrete

DESCRIPTION

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

TYPICAL APPLICATIONS

- Permanent crack sealing of below ground structures such as tunnels, shafts, basements and underpasses.
- Stopping of minor water seepage.
- Can be injected after **MasterInject 1335** in cracks where higher water flows occur.
- Single use injection through **MasterSeal 909** injection hoses

ADVANTAGES

- **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).

TYPICAL PROPERTIES*

Specific gravity, 20°C	1.15 g/cm ³
Pot life	Variable depending on ambient conditions
Final cure	7 days (35°C)
Application temperature	-20°C to +45°C
Viscosity at 25°C	300-600 CPS
Flash point	>80°C
Odour	Minimal non-offensive
Colour	Colorless to yellowish
Elongation at break (void free sample)	40%

APPLICATION GUIDELINES

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 a suitable thinner (Xylene / MEK / Acetone). 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.

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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
- Alkalies
- Oils (mineral and organic)

STORAGE AND SHELF LIFE

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.

HEALTH AND SAFETY

MasterInject 1320 is based on 4,4' Diphenylmethane diisocyanate (MDI). 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 the product is 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

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Master Builders Solutions
Construction Chemicals LLC
 P.O. Box 37127, Dubai, UAE
 Tel: +971 4 8090800
www.master-builders-solutions.com/en-ae

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