

# MasterInject® 1333

Low viscosity epoxy resin for injection grouting

## DESCRIPTION

**MasterInject 1333** is a two component solvent free epoxy resin based Injection grouting system with an extended pot-life, injecting cracks to restore structural integrity.

## RECOMMENDED USES

**MasterInject 1333** is recommended for grouting of fine cracks, cold joints. Voids etc. in concrete structural elements which are threatening the structural integrity or water tightness.

Applications include grouting of minute void for repair purposes.

- Cold joints between different concrete pours
- Stabilised cracks in structural elements
- Unfilled voids behind tiles, stone facades and joints
- Fine gaps around anchor bolts loosened due to improper grouting
- Gap behind steel late for epoxy plate bonding

## FEATURES AND BENEFITS

- **High elastic modulus** – effective transfer of stresses at bond interface
- **High Heat Deflection Temperature** – resists creep at high service conditions
- **Low Viscosity** - Effective penetration into very fine gaps less than 0.1mm
- **High Bond strength** – renders grouted area monolithic
- **Good Bond to damp surfaces** –advantage in humid environments
- **Long potlife** – sufficient time to penetrate deeply
- **Pre proportioned** – avoidance of site errors
- **Fast Curing** – fast return to service of repaired area.

## PROPERTIES

|   |   |
|---|---|
| Tensile strength MPa                      | >12   |
| Compressive strength (ASTM D 695) MPa     | >70   |
| E Modulus in compression (ASTM D 695) MPa | >2300   |
| Flexural Strength (ASTM D 695) MPa        | >25   |
| Bond Strength                             | Greater than the tensile strength of concrete |

|                                 | Part A         | Part B      |
|---------------------------------|----------------|-------------|
| Supply form                     | Thin Liquid    | Thin Liquid |
| Colour                          | Clear Amber    |             |
| Mix Ratio (A:B by volume)       | 1.35:1         |             |
| Density Mixed                   | 1.05-1.09 kg/L |             |
| Viscosity at 25°C               | 350cps         |             |
| Heat Deflection Temperature     | 60°C           |             |
| Minimum Application Temperature | 5°C            |             |
| Pot life (1L pack) @ 25°C       | >2.5 hours     |             |
| Cure time (ASTM D 695)          | 7              |             |

## APPLICATION

### Surface preparation

Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion of the injection ports. The injection ports should be applied over 6-10mm diameter holes drilled at least 50-75mm into the concrete element. For deeper penetration deeper holes should be considered. Use **MasterBrace 2200** or **MasterBrace 1438** to adhere the injection ports over the holes ensuring that the adhesive does not block the drilled holes. Allow the **MasterBrace 2200** or **MasterBrace 1438** to



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cure before injecting. The ports should follow the crack at intervals of 500mm or a maximum of 1m centres. Inject from the lowest point or furthest point towards the centre checking for resin coming out of the next hole along. For detailed instructions for on crack injection ask you BASF representative for the "MasterInject guide to crack injection".

## Mixing

Proportion part kits accurately mixing only what can be used in less than 30 minutes. Thoroughly stir Part A, add Part B and blend thoroughly using a slow speed mixer fitted with a suitable paddle.

## ESTIMATING DATA

Usage will depend on the injection pressure and the size of the cracks and is impossible to estimate.

## PACKAGING

MasterInject 1333 part A and B is supplied in 8.83 L.

Part A: 5.03 L

Part B: 3.8 L

## SHELF LIFE

MasterInject 1333 has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall

## PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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.

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## BASF Construction Chemicals offices

|  |   |  |   |  |  |  |
|--|---|--|---|--|--|--|
| <b>Singapore</b><br>Tel: +65-6861-6766<br>Fax: +65-6861-3186 | <b>Malaysia</b><br>Tel: +60-3-5628-3888<br>Fax: +60-3-5628-3776 | <b>Indonesia</b><br>Tel: +62-21-2988-6000<br>Fax: +62-21-2988-5935 | <b>Thailand</b><br>T: +66-2769-8564<br>F: +66-2769-8584 | <b>Vietnam</b><br>T: +84-650-3743-100<br>F: +84-650-3743-200 | <b>Philippines</b><br>T: +63-2-811-8000<br>F: +63-2-838-1025 | <b>Hong Kong</b><br>Tel: +852-2408-4400<br>Fax: +852-2408-4401 |
|--|---|--|---|--|--|--|

Website : [www.master-builders-solutions.asia-pacific.basf.com](http://www.master-builders-solutions.asia-pacific.basf.com)