

# MasterInject<sup>®</sup> 1315 (Formerly known as Concessive 1315)

Low viscosity epoxy resin with long potlife for crack injection

## DESCRIPTION

**MasterInject 1315** is a low viscosity epoxy resin based crack injection resin system long mixed potlife designed for sealing cracks in concrete and restoring its structural integrity.

## RECOMMENDED USES

- Stabilised cracks in structural members
- Sealing of cracks from 0.1mm to 10mm
- Unfilled voids behind tiles or stone facades
- Bonding of steel plates to concrete
- Rapid structural repair of concrete
- Grouting dowels

## FEATURES AND BENEFITS

- **Solvent free** - Low VOC and non-shrink
- **Pre-proportioned packaging** - No job site errors
- **Low viscosity** - Easy to inject into fine cracks
- **High bond strength to concrete** - Can restore the structural integrity of the concrete
- **Cures hard at low temperatures** - Wide application range
- **High heat deflection temperature** – Suitable for high ambient temperature environments

## PROPERTIES

Mixed resin and hardener only	
Viscosity (25°C)	270±50 cps
Compressive Strength (ASTM C579)	65 MPa @ 1 day
	70 MPa @ 7 days
Flexural strength (ASTM C 6319 part 3)	45 MPa @ 1 day
	55 MPa @ 7 Days
Tensile strength (ASTMD638) 7 days	18 MPa
Pot life	50 minutes @ 25°C
	30 minutes @ 40°C
Slant shear bond strength (ASTM C 882 @ 7 days)	>18 MPa (Concrete failure)
Bond strength	>2.5 MPa (concrete failure)
Tack free time	6.5 hours @ 25°C
Meets the requirements of ASTM C881 Type 1 & 4	

Grade 1 Class B & C

	Part A	Part B	Mixed
<b>Supply Form</b>	Liquid	Liquid	Liquid
<b>Colour</b>	Clear	Amber	Pale Yellow
<b>Mix Ratio</b>	77:23 pbw		
<b>Density (Mixed)</b>	1.05 kg/L		
<b>Application Temperature</b>	15°C - 35°C		

## 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 **MasterEmaco 2200** to adhere the injection ports over the holes ensuring that the adhesive does not block the drilled holes. Allow the **MasterEmaco 2200** to 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 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.

## CURING

Cure time will vary depending on the ambient temperature, quantity mixed and placed. **MasterInject 1315** will have fully cured after 7 days at 23°C.

## ESTIMATING DATA



The Chemical Company

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

## PACKAGING

MasterInject 1315 comes in 1 litre and 4 litre kit sizes

## SHELF LIFE

MasterInject 1315 can be stored in tightly closed original containers for 12 months at moderate temperature.

## 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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