

MasterInject I380

Structural concrete bonding process injection resin

Material Description

MasterInject I380 is a two-component, solventless, low-viscosity liquid adhesive for pressure injection grouting.

MasterInject I380 was developed specifically for use with the Structural Concrete Bonding Process (SCBP) and is available only through certified applicators of this process.

Areas of Application

- Structurally re-bonding cracked concrete sections.
- Filling porous or honeycombed concrete or grout.
- Anchoring bolts, dowels and reinforcing bars.
- Grouting areas pre-packed with aggregate to form bearing supports.

Characteristics and Benefits

- Low viscosity - excellent penetration of fine fissures.
- Resistance to creep and stress relaxation - due to high heat deflection temperature.
- Fast cure rate - fast return to loaded conditions.
- Bonds in wet and cold conditions - excellent adhesion even under adverse conditions.

Properties

	Part A	Part B	Mixed
Form	Liquid	Liquid	Liquid
Colour	Clear	Black	Black
Specific Gravity @ 25°C, kg/m ³	1200	1000	1130
Mixing Ratio (by volume)	2	1	
(by weight)	100	30	
Viscosity, cps @ 23°C	625		
Application temperature range	8-35°C		
Minimum cure temperature	0°C		
Properties of cured material Tested at 23°C			
Tensile strength, MPa (EN ISO 527-1; -2)			56
Tensile elongation, % (EN ISO 527-1; -2)			4.4
Flexural strength, N/mm ² (ASTM D790)			82.7
Compressive strength (EN ISO 12190)			110

Application

For **MasterInject I380** SCBP injection resins, the crack faces inside the concrete are considered to be the "sub-strate". The substrate may be moist or even totally soaked with water, such as in water-filled cracks. Though the adhesion of the injection resin on water-saturated sub-strates will still be sufficient, a slight decrease of the adhesion characteristics as compared to applications in dry concrete will occur.

Substances preventing the proper adhesion of the resin to the substrate, such as oil, marine-growth, etc., have to be removed using appropriate techniques such as ultra-high pressure water jetting, flushing with detergents, etc. The resin is mixed and installed, using the model 20-3N injection-equipment (or other suitable pressure injection equipment), which forms an integral part of the SCBP, available through Master Builders Solutions Approved Applicators only.

Estimating Data

Usage is dependent on the crack volume and best determined by onsite trials.

Packaging

MasterInject I380 is available in units of 18kg.

Storage & Shelf Life

MasterInject I380 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, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.



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Disclaimer

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<p>MB Solutions Australia Pty Ltd ABN 69 634 934 419 11 Stanton Road Seven Hills NSW 2147</p> <p>Freecall: 1300 227 300 www.master-builders-solutions.com/en-au</p>	<p>MB Solutions New Zealand Ltd 45C William Pickering Drive Albany, Auckland New Zealand</p> <p>Phone: +64 9 414 7233</p>	<p>Emergency Advice: 1300 954 583 within Australia (24hr) 0800 001 607 within New Zealand</p>

