



Master Builders  
Technologies

# CONCRESlVE 1380

SCB Process (SCBP) injection resin  
Improved standard

## DESCRIPTION

**CONCRESlVE 1380** is a two-component, solventless, low viscosity liquid adhesive for pressure injection grouting. **CONCRESlVE 1380** was developed specifically for use with the Structural Concrete Bonding Process (SCBP) and is available through certified applicators of this process.

## RECOMMENDED FOR

- Structurally rebonding cracked concrete sections.
- Filling porous or honeycombed layers.
- Anchoring bolts, dowels and reinforcing bars.
- Grouting areas prepacked with aggregate to form bearing supports.

## FEATURES & BENEFITS

- Excellent penetration of fine fissures.
- High heat deflection temperature (HDT) providing increased resistance to creep and stress relaxation.
- Fast cure rate.
- Excellent adhesion even under adverse condition, such as combination of low temperature and moisture.

## SUBSTRATE CONDITION

For the SCB Process (SCBP) injection resins, the crackfaces inside the concrete are considered to be the "substrate". 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 substrates 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 waterjetting, flushing with detergents, etc.

## MIXING AND APPLICATION

The resin is mixed and installed, using the model 20 – 3N injection-equipment, which forms an integral part of the SCB Process (SCBP) available through MBT Approved Applicators only.

## SHELF LIFE

Minimum of 18 months when stored in original sealed containers at temperatures between 4 and 32°C. If these limits are exceeded the material shall be retested to confirm conformance with product specification.

## PACKAGING

In units of 16.4 kg

## SAFETY

This bulletin may not accompany the product when sold. For specific hazard warnings and first aid instructions, **READ THE CONTAINER WARNING LABELS CAREFULLY!**

Mixed components contain chemical compounds which may cause allergic-skin and respiratory reaction. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Use only with adequate ventilation. Wash thoroughly after handling. The use of barrier creams such as Kerodex No. 71 is recommended. Clean rubber gloves or disposable polyethylene gloves should always be worn. Should skin contact occur, wash immediately with soap and water.

Technical data	Component A	Component B	Mixed
Form	liquid	liquid	
Colour	clear amber	black	black
Specific gravity @25°C, kg/m <sup>3</sup>	1160	980	1100
Mixing ratio (by volume)	2	1	
(by weight)	100	44	
Viscosity, cps, @4°C	7700	1200	4400
@25°C	640	190	350
@37°C	260	75	150
Application temperature range			4 - 37°C
Minimum cure temperature			°C



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Curing characteristics	Test temperatures		
	4°C	25°C	37°C
Pot life (60g. mass) in minutes		19	8.5
Thin film (130µm) tack free in hours		3	
full cure in days	6	3	
Get time in wide cracks, @25°C (Tested between 50cm thick concrete blocks, approximately 30 x 30 cm)	Gap width, mm		Geltime, min
	6		82
	12		30
	20		25
	25		18

### PERFORMANCE DATA

Properties of cured material		Test temperature 25°C	
Tensile strength, N/mm <sup>2</sup>	(ASTM D638)	62	
Tensile elongation, %	(ASTM D638)	2.5	
Flexural strength, N/mm <sup>2</sup>	(ASTM D790)	82.7	
Flexural modulus N/mm <sup>2</sup>	(ASTM D790)	4137	
Compressive yield N/mm <sup>2</sup>	(ASTM D695)	110	
Compressive modulus N/mm <sup>2</sup>	(ASTM D695)	1585	
Heat deflection temperature °C	(ASTM D648)	57	
Slant shear, N/mm <sup>2</sup>	(AASHTO T-237)	Test temperature	
		4°C	25°C
Cure condition	Type of failure		
3 days, wet concr.	80% adhesive	20	
7 days, wet concr.	100% concrete	31	
1 day, dry concr.	no failure		34.5

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MBT 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.

### NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MBT either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MBT are responsible for carrying out procedures appropriate to a specific application.

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