



The Chemical Company

CONCRECIVE® 1375

Low viscosity, high strength epoxy injection resin

DESCRIPTION

Concrecive 1375 is a two-component, solventless, low-viscosity liquid adhesive for pressure injection grouting.

RECOMMENDED FOR

- For structurally rebonding cracked concrete sections
- For filling porous or honeycombed concrete.
- For anchoring bolts, dowels and reinforcing bars.
- For grouting areas pre-packed with aggregate to form bearing supports.

FEATURES AND BENEFITS

- *Excellent penetration of fine fissures.*
- *High heat deflection temperature providing increased resistance to creep and stress relaxation.*
- *Fast cure rate.*
- *Excellent adhesion at low temperatures with moisture present.*

SUBSTRATE CONDITION

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 a high pressure injection pump.

ESTIMATING DATA

Dependent on the crack volume and best determined by trials.

SHELF LIFE

Minimum of 18 months when stored in original sealed containers at temperatures between 5 and 30C. If these limits are exceeded the material shall be retested to confirm conformance with product specification.

PACKAGING

In kits of 16.4kg (Part A: 11.6kg, Part B: 4.8)

SAFETY

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. 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 ³	1220	1010	1140
Mixing Ratio (by volume) (by weight)	2 100	1 44	
Viscosity, cps, @ 4°C	8000	1300	5000
@ 25°C	690	210	400
@ 37°C	300	80	175
Application temperature range			4-37°C
Minimum cure temperature			0C



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CONCRESE[®] 1375

Properties of cured material		Test Temperatures 25°C	
Tensile strength, N/mm ²	(ASTM D638)	58	
Tensile elongation, %	(ASTM D638)	2.6	
Flexural strength, N/mm ²	(ASTM D790)	78	
Flexural modulus, N/mm ²	(ASTM D790)	4000	
Compressive yield, N/mm ²	(ASTM D695)	105	
Compressive modulus, N/mm ²	(ASTM D695)	1485	
Heat deflection temperature, °C	(ASTM D648)	57	
Slant shear, N/mm ² (AASHTO T-237)		Test Temperature	
		4°C	25°C
Cure condition	Type of failure		
3 days, wet concrete.	80% adhesive	20	
7 days, wet concrete.	100% adhesive	31	
1 day, dry concrete.	no failure		34.5

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** 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 **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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