



The Chemical Company

PRODUCT DATA

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Maintenance of Concrete

SCB CONCRECIVE® 1350

Structural epoxy concrete-bonding injection resin

Description

SCB Concrecive® 1350 is a two-component low-viscosity liquid epoxy adhesive used for pressure-injection grouting. This very fast-gelling epoxy system is ideal for low-viscosity pressure-grouting where backside cap sealing cannot fully contain the injection adhesive.

Yield

One gallon yields 231 in³ (0.001 m³)

Packaging

3 gallon (11.4 L) units

Shelf Life

2 years when properly stored

Storage

Store in sealed containers between 50 and 90° F (10 and 32° C) in a clean dry area.

Features

- 2 to 1 mix ratio
- Fast cure rate
- Solvent free
- Can be mixed with dry sand to produce an epoxy mortar
- Moisture insensitive

Benefits

- Easy to measure and mix
- Can be injected into cracks accessible from one side only; quickly returns repaired areas to service
- Environmentally friendly
- Produces an economical high-strength mix
- Can be injected into damp cracks

Where to Use

APPLICATION

- Repairing cracks in concrete slabs on grade
- Repairing cracks in masonry
- Injection of cracks from 0.005 – 0.25" (0.125 – 6 mm)
- Where backside of concrete is inaccessible for cap seals

LOCATION

- Interior or exterior

SUBSTRATE

- Concrete
- Lightweight concrete
- Masonry

How to Apply

Surface Preparation

CONCRETE

Substrate may be dry or damp, although dry surfaces produce optimum results. New concrete must be fully cured (28 days minimum).

Mixing

1. The mixing ratio for SCB Concrecive® 1350 is 2 (Parts A) to 1 (Part B).
2. Mix only the amount of material usable before the pot life expires. Thoroughly stir each separate component before mixing.
3. Measure (ratio) each component carefully and then add Part B (hardener) to Part A (resin).
4. Mix Parts A and B using a low-speed drill (600 rpm) and mixing paddle (e.g., a Jiffy mixer). Carefully scrape the sides and bottom of the container while mixing. Keep the paddle below the surface of the material to avoid entrapping air. Proper mixing will take at least 3 – 5 minutes. Well-mixed material will be free of streaks or lumps.
5. SCB Concrecive® 1350 injection resin can be dispensed with most 2-to-1 plural-component pumps.



Technical Data

Composition

SCB ConcreSlve® 1350 is a two-component solvent-free liquid epoxy.

Compliances

- ASTM C 881, Type I and II, Grade 1, Class B and C

Typical Properties

PROPERTY	VALUE		
Mix ratio (A to B)			
By volume	2 to 1		
By mass	100 to 45		
Form	Liquid		
Color	Part A Straw	Part B Black	Mixed Black
Mixed specific gravity, g/ml	1.1		
Viscosity, cps at 77° F (25° C)	400 – 900		
Pot life, min, 200 g mass, at 77° F (25° C)	3 – 4		
Gel time, hrs, 5 mils (125 micrometers), at 77° F (25° C)	3 – 5		

Test Data¹

PROPERTY	RESULTS	TEST METHODS
Tensile strength, psi (MPa)	6,900 (47.6)	ASTM D 638
Elongation at break, %	3	ASTM D 638
Flexural strength, psi (MPa)		ASTM D 790
24 hr cure	9,900 (68.3)	
3 day cure	10,700 (73.8)	
7 day cure	11,450 (79.0)	
Modulus of elasticity, psi (GPa)		ASTM D 790
24 hr cure	2.9 x 10 ⁵ (2.0)	
3 day cure	4.0 x 10 ⁵ (2.8)	
7 day cure	4.1 x 10 ⁵ (2.8)	
Compressive strength, psi (MPa)	9,850 (68)	ASTM D 695
24 hr cure		
Heat deflection temperature, ° F (° C)	105 (41)	ASTM D 648
Adhesive properties of bonded concrete broken in flexure		
24 hrs at 77° F (25° C)		
Dry concrete, 550 lb load	100% concrete failure	
Wet concrete, 450 lb load	70% concrete failure	
24 hrs at 45° F (7° C)		
Wet concrete, 400 lb load	70% concrete failure	
7 days at 77° F (25° C)		
Dry concrete, 600 lb load	100% concrete failure	
Dry concrete, 475 lb load	100% concrete failure	

¹At 7 days, 77° F (25° C)

Test results are averages obtained under laboratory conditions. Expect reasonable variations.

Application

1. SCB ConcreSlve® 1350 is formulated for mixing and application with automatic pressure-injection equipment. Follow the recommendations and directions supplied by the equipment manufacturer.
2. Seal the ports and cracks with an appropriate ConcreSlve® paste epoxy.
3. When the paste has cured, inject SCB ConcreSlve® 1350 using standard pressure-injection equipment or by gravity feed.
4. For injection with side-by-side dispenser, hold in an upright position and use continuous pressure to avoid an improper mixing ratio.

Clean Up

Clean all tools and equipment immediately with xylene or mineral spirits. Cured material must be removed mechanically.

For Best Performance

- Application temperature range is 40 to 100° F (4 to 38° C).
- This product should be used by experienced personnel for recommended applications.
- Do not thin with solvents.
- Precondition all components to 70° F for 24 hours before using.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

SCB CONCRESlVE® 1350 PART A RESIN

Warning

Contains epoxy resin, O-cresyl glycidyl ether.

Risks

May cause skin, eye and respiratory irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. Ingestion may cause irritation.

Precautions

Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Keep container closed when not in use. Wash thoroughly after handling. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

For additional information on personal protective equipment, first aid, and emergency procedures, refer to the product Material Safety Data Sheet (MSDS) on the job site or contact the company at the address or phone numbers given below.

Proposition 65

This product contains materials listed by the State of California as known to cause cancer, birth defects or other reproductive harm.

VOC Content

0 g/L or 0 lbs/gal less water and exempt solvents when components are mixed and applied per Manufacturer's instructions.

SCB CONCRECISIVE® 1350 PART B HARDENER

DANGER – CORROSIVE

Contains N-aminoethylpiperazine, 4-nonylphenol, O-secbutylphenol.

Risks

Contact with skin or eyes may cause burns. Ingestion may cause irritation and burns of mouth, throat and stomach. Inhalation of vapors may cause irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. Repeated or prolonged contact with skin may cause sensitization.. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

Precautions

DO NOT get in eyes, on skin or clothing. Wash thoroughly after handling. Keep container closed. DO NOT take internally. Use only with adequate ventilation. DO NOT breathe vapors. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA

approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

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Proposition 65

This product does not knowingly contain materials listed by the State of California as known to cause cancer, birth defects or other reproductive harm.

VOC Content

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**For medical emergencies only,
call ChemTrec (1-800-424-9300).**

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