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## PRODUCT DATA

3<sup>03 01 00</sup> Maintenance of  
Concrete

# CONCRESE<sup>®</sup> PASTE SPL

Concrete bonding adhesive with short pot life

## Description

Concresive<sup>®</sup> Paste SPL is a two-component 100% solids nonsag epoxy adhesive. It is used for vertical, overhead, and horizontal applications. It is recommended for short-term or moderate-intensity loads and application when ambient or concrete-surface temperatures are in the 32 to 50° F (0 to 10° C) range. It may also be used between 50 and 70° F (10 and 21° C) when rapid curing is required.

## Yield

Smooth surfaces:  
12 ft<sup>2</sup>/gallon (0.29 m<sup>2</sup>/L)

Rough surfaces:  
6 ft<sup>2</sup>/gallon (0.15 m<sup>2</sup>/L)

Coverage rates assume a thickness of 1/8" (3 mm). Coverage rates are approximate. Actual coverage rate will depend on texture and porosity of concrete and application method employed.

## Packaging

1 gallon (3.8 L) units

## Shelf Life

2 years when properly stored

## Storage

Store at temperatures between 50 and 90° F (10 and 32° C) in a clean, dry area.

## Features

- Nonsag gel consistency
- Moisture insensitive
- Excellent workability
- Cures quickly at moderate temperatures

## Benefits

- Ideal for overhead application
- Bonds to damp surfaces
- Ease of installation
- Minimizes downtime

## Where to Use

### APPLICATION

- Sealing surfaces before epoxy injection
- Pinning loose or broken masonry
- Bonding of rigid materials
- Fairing uneven surfaces, filling gaps and joints
- Grouting bolts, dowels, and rebar into concrete
- As a rigid, pick-proof security sealant

### LOCATION

- Horizontal, vertical, and overhead surfaces
- Interior or exterior

## How to Apply

### Surface Preparation

#### CONCRETE

1. Substrate may be dry or damp, although dry surfaces product optimum results. New concrete must be fully cured (28 days minimum).
2. Remove grease, wax, oil contaminants, and curing compounds by scrubbing with an industrial-grade detergent or a degreasing compound.

3. Follow with mechanical cleaning (refer to ASTM D 4258). Remove weak, contaminated, or deteriorated concrete by shotblasting, bushhammering, gritblasting, scarifying, or other suitable mechanical means. Follow mechanical cleaning with vacuum cleaning (refer to ASTM D 4259).

#### STEEL

Remove dirt, grease, and oil with a suitable industrial-grade cleaning-and-degreasing compound (SSPC-SP-1). Remove rust and mill scale by gritblasting. Blast steel to white metal. Follow gritblasting with vacuuming or oil-free dry-air blast (refer to SSPC-SP-10 or NACE-2).

## Mixing

1. The mix ratio is 2 (Parts A) to 1 (Part B). Mix only an amount of material usable before the pot life expires. Thoroughly stir each component before mixing.
2. Measure (ratio) each component carefully and then add Part B (hardener) to Part A (resin).
3. 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.



## Technical Data

### Composition

Concresive® Paste SPL is a two-component 100% solids nonsag epoxy.

### Compliances

- ASTM C 881, Type I, II, IV, V, Grade 3, Class A and B

### Typical Properties

COMPONENT	PART A (Resin)	PART B (Hardener)
<b>Form</b>	Paste	Paste
<b>Color</b>	White	Black
<b>Mixing ratio,</b> by volume	2	1
<b>Mixed color</b>	Gray	
	<b>40 ° F</b> <b>(4 ° C)</b>	<b>77 ° F</b> <b>(25 ° C)</b>
<b>Nonsag thickness,</b> in (mm) (ASTM D 2730)	3/4 (19)	1/2 (13)
<b>Pot life,</b> min, 1 gal (3.8 L)	40	14
<b>Open time,</b> min	90	45

Test temperature: 77° F (25° C), cured 7 days. Properties listed are typical and may be used only as a guide for determining suitability for particular applications.

### Test Data

PROPERTY	RESULTS	TEST METHODS
<b>Tensile strength,</b> psi (MPa)	4,500 (31.0)	ASTM D 638
<b>Elongation at break,</b> %	0.5	ASTM D 638
<b>Compressive yield strength,</b> psi (MPa)	14,000 (96.5)	ASTM D 695
<b>Compressive modulus,</b> psi (MPa)	3.0 x 10 <sup>6</sup> (2.07)	ASTM D 695
<b>Heat deflection temperature,</b> ° F (° C)	126 (52)	ASTM D 648
<b>Slant shear strength,</b> psi (MPa)	> 5,000 (34.5)	AASHTO T-237
<b>Bond strength,</b> psi (MPa)	2,300 (15.9)	ASTM C 882
<b>Bond strength,</b> damp-to-damp concrete	100% concrete failure	AASHTO T-237

Test temperature: 77° F (25° C), cured 7 days. Properties listed are typical and may be used only as a guide for determining suitability for particular applications.

## Application

### GENERAL BONDING

- The bondline thickness should be 1/32 – 1/8" (0.8 – 3 mm). Ideally, a small amount of bonding agent should extrude from the joint when the surfaces are mated and pressure is applied. Surfaces must be mated while the paste is still tacky (within the open time).
- Deep surface irregularities can be faired with a 1-to-1 sand and Concresive® Paste SPL mix. Allow this fairing material to set. Within 24 hours, apply neat bonding agent with a trowel in sufficient quantities to fill all gaps between the mated surfaces.

### BOLT AND REBAR GROUTING

- Holes may be cut by either rotary-percussion drilling, followed by air blow-out with oil-free compressed air, or diamond core boring, followed by water flush. Where holes will be precast into the concrete, cast them undersized and drill them to fit.
- The optimum hole size is 1/4" (6 mm) larger than the bar's; larger annular spaces are less desirable.
- Apply a measured amount of bonding agent into the bottom of the hole with a caulking gun equipped with an extension nozzle. Insert the bar, displacing the paste, then secure the bar in the center of the hole. Remove excess bonding agent from around the hole before it hardens. Use pressure grouting for holes deeper than 2 ft (0.6 m).

## Clean Up

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

## For Best Performance

- Precondition all components to 70° F for 24 hours before using.
- Application temperature range is 32 to 70° F (0 to 21° C). At 32° F (0° C), ensure that all ice has been removed from the surface being bonded.
- Bonding to a clean damp surface is possible but less desirable than to a dry surface. When applying this product to a damp surface, remove free water by airblast.
- Do not thin with solvents.
- 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

CONCRESlVE® PASTE SPL PART A

### Caution

Contains epoxy resin, neopentyl glycol diglycidyl ether.

### Risks

May cause eye irritation. May cause lung irritation and allergic respiratory reaction. May cause skin irritation. Skin sensitizer.

### Precautions

KEEP OUT OF THE REACH OF CHILDREN. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel ill, seek medical advice.

### First Aid

If breathing is difficult, move person to fresh air. If you feel ill, seek medical advice. In case of eye contact, flush immediately with plenty of water for 15 minutes and call a physician. For skin, wash thoroughly with soap. If affected by inhalation of vapor or spray mist, remove to fresh air. Ingestion: Drink two glasses of water. Then induce vomiting by taking Ipecac Syrup, salt water or by placing finger at back of throat. DO NOT give anything by mouth to an unconscious person.

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 reproductive harm.

### VOC Content

0 lbs/gal or 0 g/L.

CONCRESlVE® PASTE SPL PART B

### Danger-Corrosive

Contains: o-Sec-butylphenol; 2,4,6-Tris((dimethylamino)methyl)phenol; Diethyltoluenediamine; 2,2,4-Trimethyl-1,6-hexanediamine; 2,4,4-Trimethyl-1,6-hexanediamine; Diethylenetriamine; Bisphenol-A

### Risks

Harmful if inhaled. Harmful if swallowed. Causes eye burns. Causes skin burns. Harmful if absorbed through skin.

### Precautions

KEEP OUT OF THE REACH OF CHILDREN. Do not breathe vapor or spray mist. Avoid prolonged or repeated skin contact. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Do not get in eyes, on skin or on clothing. Wear suitable protective clothing. Wear suitable gloves. Wash soiled clothing before reuse.

### First Aid

In case of eye contact, flush immediately with plenty of water for 15 minutes and call a physician. In case of skin contact, wash immediately with soap and plenty of water. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician. Thoroughly clean contaminated shoes. Ingestion: Drink two glasses of water. Then induce vomiting by taking Ipecac Syrup, salt water or by placing finger at back of throat. DO NOT give anything by mouth to an unconscious person.

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

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