

# SPECPREP SB



Structural Concrete Bonding Agent /Anti-Corrosion Reinforcement Coating

## DESCRIPTION

SPECPREP SB is a three-component, long open time, cement/epoxy bonding adhesive and anti-corrosion rebar coating. SpecPrep SB offers up to a 24 hour open time and a structural bond for fresh concrete or repair mortars to existing concrete. SpecPrep SB also provides an anti-corrosion, protective coating for steel rebar in concrete restoration. SpecPrep SB will resist penetration of water and chlorides but will not form a vapor barrier after cure.

## FEATURES/BENEFITS

- Bonds fresh concrete to hardened concrete.
- Bonds steel to fresh concrete.
- Interior/exterior, above or below grade
- Anti-corrosion coating for steel reinforcement.
- VOC Compliant/Solvent Free = 0 grams per liter
- Breathable for exterior on grade applications
- Long open time up to 24 hours
- Easy to apply by spray or brush

## APPLICATION

**Surface Preparation:** Surfaces to be bonded must be clean, and structurally sound. Remove all oil, grease, dirt, laitance, rust, curing compounds, and any other foreign material that may cause a problem with bond. Abrasive blast cleaning and mechanical removal methods are recommended. Abrade the surface to achieve a CSP profile of CSP 5-7 per ICRI Guideline # 310.2-1997

**Mixing Instructions:** Ready-to-use, do not thin with any solvents. Condition material to a min. 60°F before using. Air and surface temperatures must be a minimum of 40° F (7° C) and free of frost prior to mixing or installation. Premix each component separately, then mix 1 part of Part A with 1 Part B for 1 minute with a low speed drill motor using a Jiffy mixer or paddle. Slowly add the pre-measure Part C component to the mixed liquid for 3 minutes until a smooth, lump free consistency is achieved. Mix only as much material as can be used within the pot life.

**Bonding :** Apply SpecPrep SB as a structural bonding agent for fresh concrete to hardened concrete. Apply the SpecPrep SB into the **SSD (saturated surface damp) substrate** with a stiff brush or by spraying with a hopper gun and broom or brush in.

SpecPrep SB should be applied at the rate of 65-75 sq ft per gallon to a minimum thickness of 20 mils and repair mortar or concrete applied wet on wet or up to the recommended open time.

SpecPrep SB will act as an effective bonding agent for up to 24 hours at approx. 65°F.

## APPLICATION (con't)

Maximum recommended open time for mortar or concrete contact based on temperature of application.

40° - 50° F	wet on wet up to 24 hrs
50° - 65° F	24 hours
65° - 80° F	12 hours
80° - 90° F	6 hours

### Steel Reinforcement Anti-Corrosion Coating:

Apply 2 applications of SpecPrep SB by brush or sprayer at a thickness of 20 mils per coat to properly prepared steel reinforcement. Allow 2-4 hours between applications. Be sure to coat the underside of the rebar. Apply repair mortar or concrete after the 2nd coat as dried and within 7 days.

## PACKAGING

### 1 gallon units:

(1 quart Part A, 1 quart Part B, 10 lbs Part C)

### 3.75 gallon units

(1 gal Part A, 1 gal Part B, 40 lbs Part C)

## TYPICAL PROPERTIES

Mix Unit	3 Components
Mixed Color:	Concrete Gray
Pot Life:	30-40 minutes
Dry Time @ 70°F:	approx.1 hour
Yield per mixed gal	65-75 sq-ft @ 20 mils

### TYPICAL CURED PROPERTIES

Compressive Strength (ASTM C109)	
3 Days	3,200 psi
7 Days	6,200 psi
28 Days	8,250 psi
Flexural Strength (ASTM C348)	
28 Days	1,285 psi
Split Tensile (ASTM C496)	
28 Days	645 psi
Bond Strength (ASTM C882)	
7 Days (1 hour open time)	2,490 psi
7 Days (24 hour open time)	2,550 psi

*Bond Strength will be dependent on surface profile*



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## CLEAN UP

Clean tools and equipment with water immediately after use and before the material dries. Hardened material will require mechanical abrasion for removal.

## SHELF LIFE

Store SPECPREP SB in the original tightly closed containers. The shelf life of properly stored product is 1 year from date of manufacture.

## REBAR COATING COVERAGE

### Yield per gallon on Reinforcing Steel (based on two coats @ 20 mils each)

Bar Size	Linear Ft. Covered
#4	200
#5	160
#6	140
#7	120
#8	100

Actual coverage will be dependent on application methods, site conditions, and does not include waste

## LIMITATIONS

Precondition material to a min. 60° F for 24 hours before using.

Protect unmixed material from freezing

Protect applied material from freezing for 24 hours.

Minimum thickness for bonding agent is 20 mils

Minimum thickness for anti-corrosion coating is 40 mils

Surface, and ambient air, material temperatures must be between 40° F and 90° F.

Protect treated areas from contamination prior to application of repair mortar or concrete.

Wind and excessive heat will shorten open time.

## PRECAUTIONS

Prolonged or repeated skin or eye contact may cause irritation. If contact occurs, wash immediately and seek medical help. Use safety glasses and wear protective rubber gloves. In case of ingestion, call a physician. Contact with skin may cause chemical burns. Wash immediately with soap and water. Avoid eye contact. If eye contact occurs, flush immediately with water. Product is a strong sensitizer. Avoid breathing vapors. Use safety glasses and wear protective rubber gloves. In case of ingestion call a physician.

### INDUSTRIAL USE ONLY

Additional precautions, safety and first aid information are contained in the Safety Data Sheet.

## WARRANTY

### NOTICE-READ CAREFULLY

#### CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

#### WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

#### INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.



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