TECHNICAL DATA SHEET

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 resists penetration of water and chlorides but does not form a vapor barrier after cure.

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 g/L
- 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 interfere with bond. Abrasive blast cleaning and mechanical removal methods are recommended. Abrade the surface to CSP 5–7 per ICRI Guideline 310.2.

Mixing Instructions: Ready to use; do not thin with any solvent. Condition the material to a minimum of 60 °F (16 °C) before use. Air and surface temperatures must be a minimum of 40 °F (4 °C) and free of frost before mixing or installation. Premix each component separately, then mix 1 part Part A with 1 part Part B for 1 minute with a low-speed drill and a Jiffy mixer or paddle. Slowly add the premeasured Part C to the mixed liquid and mix 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. Work SpecPrep SB into the SSD (saturated surface-damp) substrate with a stiff brush, or spray it with a hopper gun and broom or brush it in. Apply at 65–75 sq ft/gal (1.6–1.8 m^2/L) to a minimum thickness of 20 mils, and place the repair mortar or concrete wet-on-wet or within the recommended open time. SpecPrep SB acts as an effective bonding agent for up to 24 hours at approximately 65 °F (18 °C).

Maximum Recommended Open Time for Mortar or Concrete Contact

Application temperature	Open time
40–50 °F (4–10 °C)	Wet-on-wet, up to 24 hours
50–65 °F (10–18 °C)	24 hours
65–80 °F (18–27 °C)	12 hours
80–90 °F (27–32 °C)	6 hours

Steel Reinforcement Anti-Corrosion Coating: Apply 2 coats of SpecPrep SB by brush or sprayer at 20 mils per coat to properly prepared steel reinforcement, allowing 2–4 hours between coats. Be sure to coat the underside of the rebar. Apply the repair mortar or concrete after the second coat has dried and within 7 days.

Yield per Gallon on Reinforcing Steel (two coats at 20 mils each)

Bar size	Linear feet covered
#4	200 (61 m)
#5	160 (49 m)
#6	140 (43 m)
#7	120 (37 m)
#8	100 (30 m)

Actual coverage depends on application methods and site conditions and does not include waste.

TECHNICAL DATA INFORMATION

Typical Properties

Mix unit.....3 components

Mixed color.....Concrete gray

Pot life.....30–40 min

Dry time at 70 °F (21 °C).....approx. 1 hour

Yield per mixed gallon.... 65–75 sq ft at 20 mils (1.6–1.8 m^2/L)

Age	Compressive (C109)	Flexural (C348)	Split tensile (C496)
3 days	3,200 (22.1)	–	–
7 days	6,200 (42.7)	–	–
28 days	8,250 (56.9)	1,285 (8.9)	645 (4.4)

Values in psi (MPa).

Bond Strength (ASTM C882), 7 days

1-hour open time.....2,490 psi (17.2 MPa)

24-hour open time.....2,550 psi (17.6 MPa)

Bond strength depends on surface profile.

PACKAGING

1 gal unit (1 qt / 0.95 L Part A, 1 qt / 0.95 L Part B, 10 lb / 4.5 kg Part C)

3.75 gal unit (1 gal / 3.79 L Part A, 1 gal / 3.79 L Part B, 40 lb / 18.1 kg Part C)

CLEANING

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

SHELF LIFE

Store SpecPrep SB in the original, tightly closed containers. Shelf life of properly stored product is 1 year from the date of manufacture.

LIMITATIONS

Precondition the material to a minimum of 60 °F (16 °C) for 24 hours before use. Protect unmixed material from freezing, and protect applied material from freezing for 24 hours. Minimum thickness is 20 mils as a bonding agent and 40 mils as an anti-corrosion coating. Surface, ambient air and material temperatures must be between 40 °F and 90 °F (4–32 °C). Protect treated areas from contamination before applying the repair mortar or concrete. Wind and excessive heat will shorten open time.

PRECAUTIONS

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

FOR INDUSTRIAL USE ONLY

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

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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