



B-20 BONDER

LATEX BONDING AGENT/ADMIXTURE FOR CONCRETE-READY TO USE

PRODUCT DESCRIPTION: Specco *B-20 Bonder* is non-re-emulsifiable liquid acrylic copolymer latex used to improve the physical properties, cure and adhesion of cement based coatings, toppings, grouts mortars and overlayments and underlayments. *B-20 Bonder* is commonly used to bind freshly poured concrete or cementitious materials to existing, properly prepared concrete surfaces. *B-20 Bonder* will seal the concrete substrate preventing water loss and resulting shrinkage in the subsequent topping or coating. *B-20. Bonder* will greatly improve bond and flexural strengths of thinly placed underlayments and overlayments which will increase their long term durability. *B-20 Bonder* may be used for both interior and exterior applications.

BENEFITS:

- Increases tensile, flexural, compressive & adhesive (bond) strengths
- Seals substrate base to promote increased adhesion of coatings, underlayments or patching materials
- Improves water repellent properties and resistance to freeze-thaw cycling
- Reduces shrinkage and cracking in the mix
- Improves curing in warm weather/adverse weather conditions
- Significantly reduces chloride ion penetration, thereby increasing corrosion resistance of reinforcement steel

LEED CREDIT CONSIDERATIONS: MR Credits 5.2: Regional materials- Greater than 20% extracted, processed and manufactured regionally at production location: Kankakee, IL 60901. 90% Content-Harvested within 500 miles.

COMPOSITION: Non yellowing acrylic copolymer liquid

PHYSICAL PROPERTIES at 70° F (21°C):	APPROXIMATE VALUES:
Weight per Gallon:	8.60 +/- 0.10 lb./ gallon
pH:	9.00 +/- 0.50
Color:	Milky white emulsion
Viscosity-Brookfield:	75 cps +/- 25
Non-Volatile Solids (%):	24.00 +/- 0.50

TECHNICAL DATA: Exceeds minimum bond strength requirements per ASTM C 1059 / 1042 Type II for both dry and wet environments. Test documentation shows increased performance of the mix when *B-20 Bonder* is added at levels of 15% solids, measured on the weight of the cement. Independent laboratory test data available on request.

DIRECTIONS FOR USE: *B20 Bonder* may be used in diluted and undiluted forms. Refer to the following chart for recommended dilution rates:

Admixture for Cement Coatings, Stucco, Toppings:	Dilute 1:2 with potable water
Priming Overlays over ½ inch (Deep Patching):	Dilute 1:1 with potable water
Priming Overlays under ½ inch (Thin Patching):	Use undiluted
Bonding Slurry:	Use undiluted and mix with cement and sand

Stir contents before using. *B-20 Bonder* can be used either as a primer or may also be added in place of the mixing water when preparing cement grouts, toppings, mortars, underlayments and coatings. When using *B-20 Bonder* as a bonding admixture addition, dilute as shown above and add to cement mix with low speed, mechanical agitation.

PRE-TEST OF SUBSTRATE: All sub-floors should be in a clean, dry, non-dusting, sound condition. Refer to floor covering technical data sheets for recommended surface preparation guidelines.



PRE-TEST OF SUBSTRATE (continued):The sub-floor then needs to be “primed” thoroughly with **B-20 Bonder** before application of the floor covering material. Priming the sub-floor prevents absorption of hydration water from the floor covering material that could affect bond and strength properties. To insure good adhesion, the **B-20 Bonder** should be pre-tested on the substrate before applying any floor covering materials. Apply the primer to a small “test” area by brush or broom, let dry, and then using a sharp knife cut an “X” through the primer. If the **B-20 Bonder** primer peels up upon scraping, the substrate is not suitable for application. If the **B-20 Bonder** primer is only scratched, then the surface is acceptable.

COVERAGE & APPLICATION: Apply the **B-20 Bonder** solution liberally to the entire area to be coated at an approximate rate of 200-300 square feet per gallon (4.9-7.4 m²/L) depending on the absorption or porosity of the substrate. Brush or mop the primer into the surface taking care to seal all the pores in the concrete and to avoid any “puddling” of the primer. A continuous film should be obtained without any “pinholes” or air openings on the surface, which indicate high porosity. Very porous or absorbent substrates may require 2 coats of primer to seal effectively, with the first coat diluted 1:1 with potable water for better penetration, and the second coat applied at full strength. Allow 2-3 hours of dry time between coats. The dry time of the **B-20 Bonder** solution will vary with temperature, humidity, wind, or ventilation procedures used during the time of installation. Increase airflow by use of fans to help speed dry time if necessary. Allow the **B-20 Bonder** solution to dry completely to a “tacky to touch” consistency before applying any floor covering materials. Primed surfaces are typically safely usable up to 24 hours and should not be walked on or subjected to traffic. If the actual job application exceeds 24 hours after applying the **B-20 Bonder**, another application should be applied to the area at a 1:1 by volume dilution with potable water.

CAUTIONS: Always run the “pre-test” of substrate as listed above to make sure the **B-20 Bonder** primer adhesion is adequate. Do not use **B-20 Bonder** in mixes containing early-strength cements, air-entraining cements, phosphate cements or in mixes containing air-entraining admixtures. Do not place mixes containing **B-20 Bonder** when temperatures are expected to fall below 40° F (4.4°C). Do not apply mixes containing **B-20 Bonder** on frozen surfaces. Do not place mixes containing **B-20 Bonder** at temperatures above 85° F (29.4°C) and rising or on hot surfaces. Protect mixes containing **B-20 Bonder** from heat, rain, wind, condensation, and traffic for 48 hours. Do **not** wet or damp cure **B-20 Bonder** modified mixes, allow **B-20 Bonder** modified mixes to air cure only. Heavy traffic areas require a 3-4 day curing period before vehicle use.

GHS HAZARD RATINGS: WARNING



Irritant-Respiratory Tract Irritation.

WARNINGS: IRRITANT: Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Keep away from food and drink. Do not take internally. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. Refer to product S.D.S. (SAFETY DATA SHEET) for FIRST AID INFORMATION, or any related health and safety information before using this product. For medical emergencies only, call INFOTRAC @ 800-535-5053.**

H.M.I.S. CODES: HEALTH = 1, FLAMMABILITY = 0, REACTIVITY = 0, PERSONAL PROTECTION = C (GLOVES, GOGGLES, APRON)

SHIPPING NAME: Concrete Bonding Agent – Water base - Not regulated

SHIPPING CLASS: ITEM 33880, SUB 2, LTL 55

STORAGE: Ideal storage is between 60° to 80° F. Keep from freezing

If frozen, do not use as the **B-20 Bonder** will separate or coagulate permanently. Dispose of at appropriate waste facility.

SHELF LIFE: 1 year stored properly. Depending on storage conditions, the shelf life may be extended.

PACKAGING: 1 quart (0.94 L), 1gallon (3.78 L), 5 gallon (18.9 L), and 55 gallon (208 L) containers.



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