



SBR LATEX

LIQUID BONDING ADMIXTURE

PACKAGING

1 gal (3.8 L) jug (6 per case)

Code: 067 95

5 gal (18.9 L) pail

Code: 067 05

55 gal (208 L) drum

Code: 067 55

APPROXIMATE COVERAGE

Bond Coat: 600 to 800 ft² (55.7 to 74.3 m²)

Cementitious Mortar: 100 to 120 ft² (9.3 to 11.1 m²) @ 1/2 in. (13 mm)

Concrete Topping: 150 to 160 ft² (13.9 to 14.9 m²) @ 2 in. (50 mm)

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

2 years in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- Complies with ASTM C1059, Type II
- SBR LATEX is classified by The American Concrete Institute as a non-re-emulsifiable bonding admixture
- Canadian MTQ

DESCRIPTION

SBR LATEX is a carboxylated styrene butadiene copolymer latex admixture that is designed as an integral adhesive for cement bond coats, mortars and concrete to improve bond strength and chemical resistance.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Reduces cracking through increased mortar flexural strength
- Increases wear resistance under rubber wheeled traffic
- Improves bond strengths to hardened concrete
- Increases durability during freeze/thaw cycles
- Increases mortar tensile strength

PRIMARY APPLICATIONS

- Toppings, repairs and leveling concrete surfaces
- Thin sets, terrazzo, stucco and bonding coats
- General reconstruction work/latex modified overlays
- Bridge decks, highways and parking decks

COVERAGE

	Bond Coat	Cementitious Mortar	Concrete Topping
Cement	94 lb (42.6 kg)	94 lb (42.6 kg)	658 lb (298.5 kg)
Sand	-	300 lb (136.1 kg)	1,520 lb (689.5 kg)
#8 Coarse Aggregate	-	-	1,400 lb (635.0 kg)
SBR Latex	3 gal (11.4 L)	2 to 4 gal (7.6 to 15.1 L)	10 to 12 gal (37.9 to 45.4 L)
Water	5 to 6 gal (18.9 to 22.7 L)	2 to 4 gal (7.6 to 15.1 L)	22 to 26 gal (83.3 to 98.4 L)
Total Liquid	8 to 9 gal (30.3 to 34.1 L)	5 to 6 gal (18.9 to 22.7 L)	34 to 36 gal (128.7 to 136.3 L)
Yield	700 ft ² (65 m ²)	5 ft ³ (0.14 m ³)	25 ft ³ (0.71 m ³)

Bond Coat: 600 to 800 ft² (55.7 to 74.3 m²)

Cementitious Mortar: 100 to 120 ft² (9.3 to 11.1 m²) @ 1/2 in. (13 mm)

Concrete Topping: 150 to 160 ft² (13.9 to 14.9 m²) @ 2 in. (50 mm)

*Projected coverage is an estimate only, and is highly dependent upon concrete texture.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	SBR LATEX-Modified Mortar, Mix Design:	
		Type I Portland Cement	94 lb (42.6 kg)
		Sand	300 lb (136.1 kg)
		SBR LATEX	2 gal (7.6 L)
		Water	3 gal (11.4 L)
ASTM C109	Compressive Strength	3 days: 3,200 psi (22 MPa) 7 days: 4,000 psi (28 MPa) 28 days: 4,700 psi (32 MPa)	
ASTM C78	Flexural Strength @ 7 days	3 days: 1,425 psi (9.8 MPa) 7 days: 2,075 psi (14.3 MPa)	
ASTM C190	Tensile Strength @ 7 days	3 days: 330 psi (2.2 MPa) 7 days: 480 psi (3.3 MPa)	
-	Appearance	White Liquid	

Property of SBR Latex	Value
Solids Content (by weight)	48%
Unit Weight, Specific Gravity	8.4 lbs/gal (1.0 kg/L), 1.01
VOC Content	< 5 g/L
pH as Shipped	10 to 11

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DIRECTIONS FOR USE

Surface Preparation: If using this product as a cementitious bond coat, the base concrete must be a minimum of 3 days old. The concrete must be clean and all oil, dirt, debris, paint, curing compounds, sealers and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bushhammer, shotblaster or scarifier, so that the minimum surface profile is 1/8" (3 mm) and exposes the large aggregate of the concrete. **Note: Acid etching is not acceptable.** Finally, clean the concrete of all residue with a vacuum cleaner and/or pressure washer. Allow the concrete surface to begin drying, and do not place the cementitious bond coat on standing water. Base concrete must be saturated-surface dry (SSD) to reduce moisture loss.

Bonding: For bonding toppings with this product, The Euclid Chemical Company strongly recommends using a cement bond coat rather than using this product as a primer by itself. After the surface has been prepared, prime all areas with a bond coat before the topping is applied. Follow mixing and placing instructions listed below. Place the topping on the bond coat before the bond coat dries out.

Mixing: Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 40 °F to 90 °F (5 °C to 32 °C). Add the appropriate amount of SBR LATEX for the batch size and then add the dry material. If using SBR LATEX with a pre-packaged product, reduce the amount of water added to compensate for the latex addition. Mix a minimum of 3 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

Placement: Discharge material onto the floor.

Bond Coat Application: Spread the bond coat with a stiff bristle broom until the suggested coverage rate is achieved.

Topping Application: For patching, spread with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. Finish by hand troweling. On large floor areas, use screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.

Finishing: Finish the repair material to the desired texture. Typical texture is a broom or sponge float finish. Do not add additional water to the surface during the finishing operation. If additional liquid is required, use EUCOBAR finishing aid.

Curing: Proper curing procedures are important to ensure the durability and quality of the repair or overlayment. To prevent surface cracking, a moist cure should be maintained for 24 hours followed by use of a curing compound such as DIAMOND CLEAR VOX or AQUA-CURE VOX. **Do not use a solvent based curing compound on latex modified mortars.**

PRECAUTIONS/LIMITATIONS

- Do not use material at temperatures below 45 °F (7 °C). Protect from freezing.
- No heavy traffic until the product has cured.
- Not designed for use on its own as a bonding agent. SBR LATEX must be used in a slurry with portland cement.
- Use of this product in conjunction with air entrained cement/concrete or with other admixtures may significantly increase total entrained air content. Testing is strongly advised.
- Do not use a solvent based curing compound on latex modified mortars.
- In all cases, consult the Safety Data Sheet before use.

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