



EUCLID CHEMICAL

SBR LATEX

LIQUID BONDING ADMIXTURE

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.

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

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

TECHNICAL INFORMATION

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

PROPERTY	SBR LATEX-MODIFIED MORTAR
Compressive Strength, psi (MPa) ASTM C109	3 days: 3,200 (22) 7 days: 4,000 (28) 28 days: 4,700 (32)
Flexural Strength @ 7 days, psi (MPa) ASTM C78	3 days: 1,425 (9.8) 7 days: 2,075 (14.3)
Tensile Strength, 7 days, psi (MPa) ASTM C190	3 days: 330 (2.2) 7 days: 480 (3.3)
Appearance	White liquid

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)

PROPERTY OF SBR LATEX	VALUE
Solids Content (by weight)	48%
Unit Weight, Specific Gravity	8.4 lbs/gal, 1.01
VOC Content	< 5 g/L
pH as Shipped	10 to 11

PACKAGING

SBR LATEX is packaged in 55 gal (208.2 L) drums, 5 gal (18.9 L) pails, and in cases of 1 gal (3.8 L) jugs (6 jugs per case).

SHELF LIFE

2 years in original, unopened container

SPECIFICATIONS/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

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)	1520 lb (689.5 kg)
#8 Coarse Aggregate	-----	-----	1400 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)

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

Coverage rates are estimates only and is highly dependent upon concrete texture and unit weight of aggregate used.

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 (5°C) to 90°F (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.**

CLEAN-UP

Clean tools and equipment with water before the material hardens.

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.

Rev. 01.19

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.