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SBR LATEX

BONDING ADMIXTURE

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, patches and leveling courses
- Thin sets, terrazzo, stucco and bonding coats
- General reconstruction work and latex modified overlays
- Bridge decks, highways and parking decks

FEATURES / BENEFITS

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

SPECIFICATIONS / COMPLIANCES

- SBR LATEX meets ASTM C 1059-86, Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete, Type II.
- SBR LATEX is classified by The American Concrete Institute as a non-reemulsifiable bonding admixture.

PACKAGING

SBR LATEX is packaged in 55 gal (208 liter) drums, 5 gal (18.9 liter) pails and cases of six 1 gal (3.8 liter) units.

TECHNICAL INFORMATION

Typical Engineering Data
Physical Properties of SBR LATEX

Solids Content:	48%
Weight per gal.:	8.4 lb (1kg/liter)
pH as shipped:	10-11
Shelf Life:	1 year
Color:	white

Typical mix design and test results
Suggested Mortar Mix Design:

Type I Portland:	94 lb (42.6 kg)
Sand:	300 lb (136 kg)
SBR LATEX:	2 gal (7.66 liter)
Water:	3 gal (11.4 liter)

Compressive Strength
ASTM C-109 2" (50 mm) cubes

3 days	3,200 psi (22 MPa)
7 days	4,000 psi (28 MPa)
28 days	4,700 psi (32 MPa)

Tensile Strength ASTM C-190

3 days	330 psi (2.2 MPa)
7 days	480 psi (3.3 MPa)

Flexural Strength ASTM C-256

3 days	1,425 psi (9.8 MPa)
7 days	2,075 psi (14.3 MPa)

Appearance-SBR LATEX is a free flowing white liquid. When used as an admixture for mortars and concrete, the color of the concrete may initially appear somewhat darker than plain concrete. This is due to moisture retention and the color will lighten up over time as the concrete dries out.

COVERAGE*

(see yield in "Material Requirements")
Bond Coat: 600-800 ft^2 (55.7-74.3 m^2)
Mortar: 100-120 ft^2 (9.3-11.1m^2) @ 1/2" (12.7 mm)
Concrete Topping: 150-160 ft^2 (13.9-14.9 m^2) @ 2" (50 mm)

*Projected coverage is an estimate only and is highly dependent upon sub-base texture and unit weight of aggregate used.

Material Requirements

Mix Type	Bond Coat	Concrete Mortar	Topping
Cement	94 lb (42.6 kg)	94 lb (42.6 kg)	658 lb (295.5 kg)
Sand	---	300 lb (136.1 kg)	1520 lb (635.0 kg)
#8 Coarse Aggregate	---	---	1400 lb (635.0 kg)
SBR LATEX	3 gal (11.4 L)	2-4 gal (7.6-15.1L)	10-12 gal (37.9-45.4 L)
Water	5-6 gal (8.9-22.7L)	2-4 gal (30.3-34.1 L)	22-26 gal (128.7-136.3 L)
Total Liquid	8-9 gal (30-34 L)	5-6 gal (19-23 L)	34-36 gal (129-136 L)
Yield	600-800 ft^2 (50-65 m^2)	4-5 ft^3 (0.11-0.12 L)	25-27 ft^3 (0.17-0.18 L)

DIRECTIONS FOR USE

Surface Preparation-If using this product as a bond coat, the concrete must be a minimum of 3 days old.

The concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabbler, bushhammer, shotblaster or scarifier which will give a surface profile of a minimum 1/8" (3 mm) and expose the large aggregate of the concrete.

Note: Acid etching is not acceptable.

The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing. Allow the concrete surface to dry. Do not place bond coat on standing water.

All concrete must possess an open surface texture with all curing compounds and sealers removed.

All areas should be pre-dampened to reduce moisture loss. Do not place product on standing water.

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 ap-

plied. 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) - 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).
- No heavy traffic until the product has cured.
- Protect from freezing.
- 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.

Form SBR Latex-6.97