SBR LATEX

Bonding Admixture

EUCLID CHEMICAL

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
- Increases mortar tensile strength
- Improves bond strength to hardened concrete

Technical Information

Property	SBR Latex-Modified Mortar
Compressive Strength, MPa ASTM C 109	3 days: 22 7 days: 28 28 days: 32
Flexural Strength, 7 days, MPa ASTM C 78	3 days: 9.8 7 days: 14.3
Tensile Strength, 7 days, psi (MPa) ASTM C 190	3 days: 2.2 7 days: 3.3
Appearance	White liquid

SBR LATEX - Modified Mortar Mix Design

Type I Portland Cement
42.6kg
Sand
136.1kg
SBR LATEX
7.6L
Water
11.4L

Property of SBR Latex	Value
Unit Weight	1.0 kg/L
Solids Content by Weight	35%
VOC Content	< 5 g/L
pH as Shipped	10 - 11

Packaging

SBR LATEX is packaged in 200 L drums and 20 L pails.

Shelf Life

2 years in original, unopened container

Specifications/Compliances

Complies with ASTM C 1059-86, Type II

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Coverage

	Bond Coat	Cementitous Mortar	Concrete Topping
Cement	42.6 kg	42.6 kg	298.5 kg
Sand	------	136.1 kg	689.5 kg
#8 Coarse Aggregate	------	------	635.0 kg
SBR LATEX	11.4 L	7.6 to 15.1 L	37.9 to 45.4 L
Water	18.9 to 22.7 L	7.6 to 15.1 L	83.3 to 98.4 L
Total Liquid	30.3 to 34.1 L	18.9 to 22.7 L	128.7 to 136.3 L
Yield	65 m^2	0.14 m^3	0.71 m^3

Coverage:

Bond Coat: 55.7 to 74.3m^2 **Cementitious Mortar:** 9.3 to 11.1m^2@12.7mm **Concrete Topping:** 13.9 to 14.9 m^2 @ 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 scabbler, bushhammer, shotblaster or scarifier, so that the minimum surface profile is 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 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 prepackaged 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 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 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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