



SBR LATEX

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

TECHNICAL INFORMATION

Material properties tested under laboratory conditions @ 27°C, 50% RH.

PROPERTIES	VALUE
Appearance	White liquid
Compressive Strength, ASTM C 109	3 days: 25 MPa 7 days: 32 MPa 28 days: 37 MPa
Flexural Strength ASTM C 78	3 days: 10 MPa 7 days: 15 MPa
Tensile Strength, ASTM C 190	3 days: 3 MPa 7 days: 3.8 MPa

SBR LATEX-Modified Mortar Mix Design:

Type I Portland Cement 50 kg
Sand 150 kg
SBR LATEX 8 L
Water 3.50 L

PROPERTIES OF SBR LATEX	VALUE
Specific gravity	1.02
Solids Content (by Weight)	48%
pH	8 to 11

PACKAGING

SBR LATEX is packaged in 20 kg HDPE pails and 210 kg HDPE drums.

SHELF LIFE

12 months in original, unopened package.

SPECIFICATIONS/COMPLIANCE

Complies with ASTM C 1059-86, Type II

SBR LATEX is classified by The American Concrete Institute as a non-re-emulsifiable bonding admixture Canadian MTQ

COVERAGE

PROPERTIES	BOND COAT	CEMENTITIOUS MORTAR	CONCRETE MORTAR
Cement	50 kg	50 kg	295.5 kg
Sand	—	150 kg	700 kg
#8 Coarse Aggregate	—	—	645 kg
SBR LATEX	13.5 L	8.9 to 17.7 L	38.5 to 46.09 L
Water	22 to 26.5 L	8.9 to 17.7 L	83.16 to 90 L
Total Liquid	35 to 39 L	22.3 to 27 L	84.43 to 100 L
Yield	75 m ²	0.16 m ³	0.72 m ³

Coverage:

Bond Coat: 65 to 87m² Cementitious Mortar: 11 to 13m² @ 12.7mm Concrete Topping: 14 to 15 m² @ 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, bush hammer, shotblaster or scarifier, so that the minimum surface profile is 3mm 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 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 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, refer the Safety Data Sheet before use.