



EUCLID CHEMICAL

EUCO SBR LATEX

Modified Styrene Butadiene Rubber Emulsion Based
Additive and Bonding Agent

BONDING AGENT

DESCRIPTION

EUCO SBR LATEX is a modified styrene butadiene emulsion-based bonding aid and additive for mortars, screeds and renders, which is supplied as a ready to use white liquid. It is designed to improve the quality of site-batched cementitious mortars and slurries.

Resistant to hydrolysis (unlike PVA-based bonding system) so it performs very well under humid conditions and other applications subject to continuous and/ or alternating wet and dry conditions.

Standards: EUCO SBR LATEX conforms to ASTM C1059/C1059M

PRIMARY APPLICATIONS

- Polymer modified floor screeds
- Bonding slurries
- Waterproof screeds
- Polymer concrete overlays for highways and bridges
- Levelling courses patching / repair mortars
- Toppings
- Thick bed mortar for setting tiles, bricks, marble stones, and ceramics

FEATURES/BENEFITS

- **EXCELLENT ADHESION** - improves bond strength to hardened concrete
- Excellent resistance to moisture and Increased resistance to salt effervescence
- **DURABLE**-increases weather resistance and wear against high frequency traffic
- **HIGH STRENGTH** - increases compressive, flexural, and tensile strength of cementitious systems
- **CHEMICAL RESISTANT** - resist mineral oil, diesel, weak acids, salts, chlorinated water

TECHNICAL INFORMATION

Material properties tested under laboratory conditions @ 25°C, 50% RH

Property	Test Method	Values at 25° C
Components	-	Single
Appearance	-	Milky White
Density	ASTM D1475	1.02 ± 0.05 Kg/L
Compressive Strength	BS6319 – Part 2	10 – 15% increase over control
Flexural Strength	BS6319 – Part 2	10 – 15% increase over control
Tensile Strength	BS6319 – Part 7	5 – 10% increase over control
Slant Shear Bond Strength	ASTM C1042	> 10 N/mm ²

Values presented are typical and not necessarily referenced to create specifications.

PACKAGING

EUCO SBR LATEX is packaged in 20 Ltr pail and 200 Ltr Drum.

SHELF LIFE

1 years in original, unopened package, covered well and stored in warehouse condition below 35°C

COVERAGE

Bonding Agent: 5 – 7 m² / liter / coat of EUCO SBR LATEX. Actual coverage is based on texture and porosity of the substrate.

Additive: 10 – 20% by weight of the cementitious materials.

DIRECTIONS FOR USE

Surface Preparation: Surface must be structurally sound, clean, and free from dust, oil, grease, curing compounds, Instance, coatings and other loose debris. Surface should be fairly rough to provide good mechanical key. Recommended methods for preparing concrete are by sandblasting, water jet, acid etching, grinding, wire brushing or by pneumatic tools. Where steel reinforcements are exposed, concrete should be removed baring all reinforcements on the unsound area. The steel reinforcements should be cleaned and preferably coated with **Carbozinc 858**. Prior to priming, the concrete substrate should be wetted with water to avoid moisture loss due to suction, but free-standing water should be removed.

As a Bonding Slurry: A bonding slurry should be prepared consisting of 1 volume EUCO SBR LATEX to 1 volume clean water to 1 volume fresh cement. To obtain a smooth consistency, the cement should be blended slowly into the premixed liquids. The bonding slurry should be stirred frequently during use to offset settlement.

As an Additive: A forced-action mixer is essential for large volume applications. Mixing in a suitably sized drum using an approved spiral paddle in a slow speed (400/500 rpm) heavy-duty drill is acceptable for minor areas. Weigh the cement, sand and, where required, aggregate into the mixer and dry blend together for one minute. With the machine in operation, add the pre-mixed EUCO SBR LATEX and clean water. Continue mixing for 3 minutes to ensure complete dispersal into the sand and cement. Make any small adjustment to the quantity of clean water; however, additional water should be kept to a minimum. Continue mixing up to a maximum of 5 minutes until a smooth and fully homogeneous consistency is achieved with the required workability and application properties.

Note: To prepare EUCO SBR LATEX modified repair mortar, floor screed & renders, please contact local Stoncor Technical Service Team.

Application:

Bonding Agent: Thoroughly stir EUCO SBR LATEX and apply it to the prepared surface using a brush, roller, or spray. Ensure even coverage across the entire surface. Place the subsequent material to be bonded while the EUCO SBR LATEX remains tacky.

Bonding Slurry: Apply slurry bonding coat made up of EUCO SBR LATEX, water and cement in the ratio of 1:1:1 by weight using brush or roller.

Additive: EUCO SBR LATEX-modified mortars, toppings, and renders must be properly compacted onto the prepared substrate using a trowel. Any exposed steel reinforcement should be fully encapsulated by the mortar. EUCO SBR LATEX -modified mortars can be applied in thicknesses ranging from 6 mm to 50 mm. For sections exceeding 50 mm, the surface of the intermediate layers should be keyed and primed before further application.

Curing: EUCO SBR LATEX modified cementitious systems should be cured just after initial setting with water or with a suitable curing agent form **EUCO CURE** range of curing compounds.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS / LIMITATIONS

- In all cases, consult the Safety Data Sheet before use.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact StonCor Middle East to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to StonCor Middle East Quality Control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost data, if shown, are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY STONCOR MIDDLE EAST, EXPRESS OR IMPLIED, STATUTORY BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

January 2024 (DXB/BA/01/Ver2)

(EUCO SBR LATEX)

StonCor Middle East

Tel: +971 (0) 4 2579033

E-mail: info@stoncor-me.com

www.stoncor-me.com