

Pro-SBR Latex



Polymer Bonding Admixture For Concrete And Mortar.

Description

Pro-SBR is a modified styrene butadiene latex with natural rubber white colour admixture that is used to improve the quality of site-batched cementitious mortar and slurries. It is designed as a bonding agent for cold joints and being resistant to hydrolysis. It is ideal for internal and external applications in conjugation cements to improve the properties of cement renders, screeds and mortars.

Recommended Applications

- **Pro-SBR** is highly recommended as a bonding agent for cold/construction joints.
- Used in patching concrete and repairing mortar.
- Used as a binding bridge for render and waterproofing.
- Provide thin section screeds especially for bridge decks, highway, parking decks and industrial floors.
- Provide a corrosion protection layer upon steel and metallic substrate.

Features and Benefits

Pro-SBR is a complex latex of styrene butadiene rubber with following properties and features:

- Single component liquid can easily gauged as required.
- Excellent bonding to concrete, masonry, stonework, plaster and block-board.
- Increase mortar tensile strength and increase mortar wear resistance under rubber wheeled traffic.
- Reduce shrinkage and cracked probability through increased mortar flexural strength.
- Increase durability under freeze and thaw cycles.
- Water base product with no chloride admixture.
- No corrosion to metallic substrates.

Properties

Appearance	Diluted ready to use Liquid
Colour	White
Total Solid Contents	45 - 50 %
Density	1.00 - 1.02 kg/Ltr

PH Value	8 - 9 on dispatch
Minimum Application temperature	5°C
Elongation to Break	900 - 1050 %
Bonding Grout	2-3 m ² /Ltr

Instructions for Application

• Surface Preparation:

For optimum performance of **Pro-SBR** upon substrate, which are to receive the coating, must be free from contamination such as oil and grease, old coatings, curing compounds, laitance, loose particles and etc. Mechanical wire brushing may be appropriate for small areas. Typically, using high-pressure water jet or grit blasting can clean the concrete surfaces. Spilled surfaces or those containing large blow-holes, cracks or other such defects, should be repaired using the appropriate grade of concrete repair mortar. If we are using this product as a bond coat, the concrete must be 3 days old.

Metal Surface: Clean the surface of all rust scales. This can be achieved by wire brushing or grit blasting.

• Mixing:

Recommended Mixing ration for **Pro-SBR** as bond coat:

Pro-SBR: Water: Cement = 1: 1: 3

White polymeric liquid is poured from unsealed cane into a plastic or metallic drum, and then same ratio of water should be poured in container after cement content of mortar poured gradually in to the diluted SBR liquid. Mixing must be continued until lump free slurry is obtained. Use a paddle type mortar mixer for large scale preparation. Keep in mind, all mixing material should be in proper temperature range of 05°C to 40°C. The mixed product should be quickly transported to the repair area and placed immediately.

• Application as a bond coat:

Pro-SBR latex is highly recommended solution for old and new concrete or construction joints. For this application recommended mixing ratio mentioned in above mixing paragraph. Apply prepared lump free slurry with brush or flooded on the receiving substrate. Bond coat slurry should not be dried before application of concrete, mortar and screening etc.

• Application as an admixture:

Pro-SBR also recommended for polymeric modification of prepared concrete and mortar in



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construction industry.

• Recommended Dosing:

For Bond Coat: 2.5 - 4 m²/lit

For admixture uses: 1 - 5 % of cement by weight percentage.

Note: For more details regarding **Pro-SBR** latex and its application contact with Pro-Tech Technical Services Dept.

Cleaning and Disposal

Clean all tools and equipment's before and after usage of product. Cured material can be removed only by some mechanical means.

Packing

Pro-SBR is available in bulk:

- 30 Litre Cane
- 210 Litre Drum

Storage

Pro-SBR must be store in dry and cool place below 35° C. And also protect from direct sunlight, try to store in shady area.

Shelf life

1 Year of unopened pack.

Limitations

- **Pro-SBR** latex protect from freezing.
- Do not apply this product when temperature below 5° C.
- Use this product in conjugation when air entrained cement or concrete may significantly increase total entrained air contents.
- Not designed for use on its own as bonding agent, must be used in slurry with high quality Portland cement.

Health and Safety

As with all construction chemicals products caution should always be exercised. Skin barrier cream, safety goggles and rubber goggles are recommended carried out in accordance with local legislation under guidance of the local waste regulatory authority. Treat any splashes to skin or eyes immediately with plenty water. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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- Cold Applied Systems & Contractors
- Insulation Systems & Materials
- PVC Water Stops
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- Geo Membrane
- Waterproofing Chemicals
- Self-Adhesive Membranes

Important note:

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