

ShaliSBR Latex

SBR Latex For Waterproofing / Repairs



STP Limited

Description

ShaliSBR Latex is a carboxylated styrene butadiene copolymer latex for integral adhesive for slurry bond coats, mortars and concrete to improve strength and Chemical resistance.

ShaliSBR Latex meets ASTM C 1059-86, Type II.

Characteristics

Physical Appearance	Milky white liquid	Solid Content, %	40 ± 2
Specific gravity	1.01 ± 0.05	Shear Adhesion, Mpa	9.0 ± 0.2

Application

- Toppings, patches and leveling concrete surfaces.
- Modifying / improving bonding of floor toppings, rendering and mortars.
- Repair of worn / damaged / spalled concrete and cracks.
- Thin sets, terrazzo, stucco and bonding slurries.
- General reconstruction work and latex modified overlays.
- Bridge decks, highways and parking area.

Advantages

- Easy to use.
- Excellent bond to concrete adhesion plaster, masonry, stone work etc.
- Facilitates dense, impermeable, mortar for column & beam repairs.
- Reduces rate of corrosion while applied on steel bars.
- Reduces cracking through increased mortar flexural strength.
- Increases mortar wear resistance under rubber wheeled traffic.
- Increases mortar tensile strength.
- Increases durability during freeze / thaw cycles.
- Withstands chloride ion diffusion & sulphate / CO₂ attack due to marine or industrial weather.

Application Methodology

➤ Surface Preparation

- If **ShaliSBR Latex** is used as a slurry bond coat, ensure that concrete is 3 days old.
- Do not place slurry coat on standing water.
- Ensure that the concrete is clean and rough. Remove all oil, dirt, debris, paint and unsound concrete.
- The surface must be prepared mechanically using a scabbler, bush hammer, shot blast or scarifier which will give a surface profile of a minimum 3 mm and expose the large aggregate of the concrete.
- Use vacuum cleaner or pressure washing to ensure thorough cleaning and removal of all residue.
- Ensure all concrete possess an open surface texture with all curing compounds and sealers removed.
- Pre-wet all areas to reduce moisture loss.

➤ Material Preparation

- **Suggested Mix:**

Mix Type	Unit	Cement Slurry	Mortar
Cement	kg	50	50
Sand zone II	kg	-	125
ShaliSBR Latex	L	11.5	7 – 10
Water	L	8 – 10	8 - 10

- For small quantity, mix with a drill and "jiffy" mixer.
- For large quantity use drill machine fitted with paddle or small mixer machine.
- Add the appropriate quantity of **ShaliSBR Latex** for the batch size consisting of powder / sand / coarse aggregate and cement and mix till the required consistency is achieved.
- If using **ShaliSBR Latex** with a pre-packaged product, reduce the amount of water added to compensate for the latex addition.

➤ Application of Material

- Prime all prepared surface areas with a slurry coat before applying the topping.
- **Bond Coating Application**
 - Spread the slurry with a stiff bristle broom until the suggested coverage rate is achieved.
- **Topping Application**
 - For patching, spread with a trowel, come-a-long, or a square tipped shovel to a thickness that matches the surrounding concrete. Finish by hand trowelling.
 - On large floor areas, use screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.
 - In case of bonding toppings with **ShaliSBR Latex**, use slurry coat instead of **ShaliSBR Latex** itself as a primer.
- **Structural repairs for columns and beams**
 - Use polymer mortar admix with **ShaliSBR Latex** to build up the spalled areas of the cover zone concrete.
- **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.
- Ensure proper curing for durability and quality of repair or over layment. To prevent surface cracking, keep surface moist for at least 72 hours.
- Execute structural repairs for columns & beams using polymer mortar. This is a dry pack method to build up the spalled areas of the cover zone concrete and has high compressive and tensile strengths.
- **Do not place ShaliSBR Latex on standing water.**

Cleaning & Maintenance

Clean tools and equipment with water before the material hardens.

Health & Safety

- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.

- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packaging

Available in 5 L, 20 L & 200 L drum.

Storage

Keep in cool and dry place, under shed, away from heat.

Shelf Life

12 months in original unopened sealed condition.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing & Insulation
- Road Surfacing
- Sealants & Adhesives
- Pipeline Coatings
- Protective/Anti-Corrosion Coatings
- Epoxy and Flooring
- Grouts and Admixtures (GARA)
- RestoFix - Repair/Rehabilitation
- Other Construction Chemicals



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