



HS Latex Plus

SBR based polymer for repair and waterproofing

PRODUCT COMPOSITION: HS Latex Plus is Styrene-Butadene Latex based liquid for waterproofing and multi purpose repair work.

USP

Features	Benefits
Usability	Easy to use, non-toxic, economical
Abrasion resistance	Improves abrasion resistance by increasing the hardness of the cured concrete
Compressive strength	Exhibits good compressive strength for heavy traffic applications
Weather resistance	Can be used as frost resistant render
Bonding cementitious	Shows good bonding with concrete, brick and stonework, plaster and surface, cured asphalt substrates etc.
Crack resistance	Prevents cracking by improving flexural strength. Reduces aging and drying of shrinkage cracks
Corrosion and erosion	Improves erosion, helps to reduce corrosion and hence provides durability

USAGE AREA

Waterproofing – Balconies and staircase, bathrooms, terraces and lift pits, tanks for liquids, decks, walkways, chajjas etc. **Bond coating** - new concrete to old concrete, plastering, masonry stonework **Concrete repairs** - spalled concrete of floors, columns, slabs, chajjas, beams, parapets etc. **Cladding** - horizontal fixing or re-fixing of stones, marble bedding, tiles, slip bricks etc. **External rendering, Bonding agent** - bonding mortar for tiles and panels.

DIRECTIONS FOR USE

Surface Preparation: Surface to be treated must be thoroughly cleaned from all kind of laitance, oils, grease etc. Mechanical means such as shot blasting, wire brushing can be used followed by vacuum cleaning of all loose materials. Degrease the surface by using suitable solvents. Repair the spalled concrete section by saw, cutting the extreme edges of the repairable portion - at least to a depth of 10 mm to avoid feather-edging and to afford better bonding. Roughen the surface by light scrabbling or grit blasting. Expose corroded rebar in the repairing area totally. Remove all loose scales and depositions followed by immediate cleaning.

Priming: For priming of concrete substrate, the surface should be thoroughly washed with clean water. Remove excess water. Make sure that the surface is damp but touch dry - before application. Prepare the 'primer coat' by mixing 1 part HS Latex Plus with 3 parts of fresh cement. Slowly mix cement with HS Latex Plus to obtain a smooth consistency. Continue mixing the slurry during application to prevent settlement. For priming of exposed rebars, mix 1 part Latex Plus with 2.5-3 parts of fresh cement and apply on the substrate.

Preparation of Mortar: Hand mixing is permissible only for 20 kg of the total mix weight or less quantity. A forced action PAN mixer is recommended to prepare a homogeneous mortar mix with HS Latex Plus. Use a suitable sized drum with heavy duty electrical drill machine fitted with spiral paddle mixer at a speed of 400-500 rpm. Charge the mixer with required quantity of clean, dry sand, cement and mix for 2 min. Mix recommended dosage of HS Latex Plus with half of the gauging water and add to the sand-cement mix. Mix for another 3-4 min. to avoid air entrapment. Keep adding rest of water slowly until the required consistency is obtained. Don't add extra water.

USAGE PRECAUTIONS

Do not dilute beyond recommendation. To be applied over damp substrate but in a tack free condition. Waterproof coats with HS Latex Plus must be protected with plasters/screeds. Not recommended for use in very critical concrete repairs. While applying as a bond coat, if it becomes dry, re-apply to reach a tacky state for overlaying of concrete/mortar. Recommended dosage to be followed to attain desired results.

Application of Mortar: Wide range of mix designs are recommended for various application purposes using HS Latex Plus. The mix designs are as follows:

	Heavy Duty Floor Screed	Patching and Repair Mortar	Renders	Bonding Mortars for Bricks & Tiles
Consistency	Semi-dry cohesive consistency	Mortar consistency		
Thickness (mm)	10 to 40	6 to 40	6 to 9	6 to 40
HS Latex Plus	10 L	10 L	10 L	10 L
Water	6 L	10 L	6 L	7 L
OPC	50 kg	50 kg	50 kg	50 kg
Sand	75 kg	150 kg	150 kg	125 kg
3-5 Aggregates	75 kg			

TECHNICAL DATA

Properties	Specifications
Type	Styrene Butadiene Polymer Liquid
Aspect	White liquid
Specific Gravity	1.02 ± 0.02
Dry Content (%)	34.0 ± 2.0
pH	7 – 9
Bond Strength, 14 Days (ASTM C-882)	5.5 ± 0.5

PRODUCT INFORMATION

Shelf life	36 months from the date of manufacturing in unopened condition.
Storage	Free from frost. Store in a cool and dry place, shield from direct sunlight.
Coverage	Approx. 20 – 22 ft ² /kg for 2 coats. (HS Latex Plus + OPC in ratio of 1 : 1.5).
Packs	500 g, 1 kg, 5 kg, 20 kg

Health and Safety Precautions

Avoid prolonged skin contact. Cementitious mortars and slurries mixed with HS Latex Plus, releases alkali which are harmful to skin and eye. Hence, necessary precautions should be taken along with respiratory protective equipment.

Avoid contact with foodstuff and utensils. In case of eye/mouth contamination, wash thoroughly with plenty of clean water immediately and seek medical advice. Keep out of children's reach.

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BERGER PAINTS INDIA LIMITED

Berger House, 129 Park Street, Kolkata 700 017, W.B. | CONSUMER RELATIONS MANAGER Ph: 1800-103-6030
Fax: 91-33-2249-9729/9009 | SMS BERGER to 56767 | Email: consumerfeedback@bergerindia.com | www.bergerpaints.com