

# MarkChem Superbond SBR Latex

STYRENE BUTADIENE LATEX FOR WATERPROOFING AND REPAIRS



## DESCRIPTION

**MarkChem Superbond SBR Latex** is based on modified styrene butadiene latex supplied as a ready to use bonding agent in liquid consistency. It is used for repair of spalled concrete – floors, columns, beams, chhajjas, slabs. Waterproofing of toilet, bathrooms and small terraces etc. It bonds strongly to old & new concrete and to plasters. It reduces shrinkage, prevents cracking, dust pick up & improves abrasion resistance.

## FEATURES / ADVANTAGES

- Non-toxic to human being.
- It acts as anti-corrosive for steel. SBR is highly durable even in continuous contact with water.
- Multipurpose – it is multipurpose & economical product, easy to use.
- Cracking – it prevents cracking by improving flexural strength.
- Hardness – improves the hardness & prevents dust generation.
- Shrinkage – Reduces drying & aging shrinkage cracks.
- Bonding – Bond strongly to concrete, masonry, stonework, plasters, cementitious surfaces, asphalt & most of the building materials.
- Erosion & corrosion – improves erosion resistance & prevents corrosion.
- Abrasion resistance – improves abrasion resistance of the cement mix.
- Reduces viscosity of cement injection grout for better fluidity & bonding.

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## USES

- For concrete repairs - Spalled concrete of floors, columns, beams, chhajjas, slabs, parapets, etc.
- For waterproofing – Small roof terraces, sunken portions of toilets & bathrooms, chhajjas & lift pits, balconies & staircases.
- Renovation and protection of concrete against corrosion and salt petre.
- For waterproofing – liquid & effluent tanks, car decks & walkways.
- Bonding mortar for tiles & panels, as undercoat for special finishes such as top rendering coat for chemical resistant floors.
- For bonding of new concrete to old concrete, masonry stone work, plastering.
- Fixing or re-fixing of slip bricks, tiles, stones & marble bedding.
- As external rendering – weatherproof & frost resistant render high wear & erosion resistant render. As bonding slurry coat for pinhole treatment on concrete surface & as repair mortar for overhead application.

## TYPICAL APPLICATION

### Surface Preparation

- Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance & dust. Degrease the surface by using suitable solvents.
- Repair the Spalled concrete portion by saw, cutting the extreme edges of the repair location to a depth of at least 10 mm to avoid featheredging & to provide strong bond.
- Clean the concrete surface to remove any contamination where breaking is not possible. Roughen the surface by light scrubbing or grit blasting.
- Expose corroded rebar in the repairing area fully. Remove all loose scales & corrosion deposits and immediately clean the surface.

### Priming

- For priming of concrete substrate, the surface should be thoroughly saturated with potable water. Remove any excess of water prior to application. Slurry of primer coat is prepared by mixing of one part **MarkChem Superbond SBR Latex**, one part of water and 3 parts of fresh OPC cement. Slowly mix cement with binder to obtain a smooth consistency. Continue mixing the slurry during application to prevent settlement.

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## Mixing

- A forced action mixer is essential (Pan Mixer) & recommended to ensure that **MarkChem Superbond SBR Latex** mortar is thoroughly mixed or Use a suitable sized drum with heavy-duty electrical drill machine fitted with spiral paddle mixer at slow speed of 400-500 rpm.
- Hand mixing is permissible only for 25 kg or less quantity.
- Charge the mixer with required quantity of clean & dry sand, cement & mix for 1-2 minutes, then adds **MarkChem Superbond SBR Latex** as per the dosages recommended. Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding water until the required consistency is achieved. Do not add extra water.

## Application

SNO	Application	Composition	Quantity Super Bond Latex	Consistency and Thickness
1.	Patching & Repair Mortar & dry	-OPC-50Kg  -Graded sharp & washed & dry sand – 150 Kg  -Water – 10 liters	<b>10 liters</b>	Mortar consistency, 6-40 mm thickness
2.	Heavy duty floor screed	-OPC-50Kg  -Graded sharp & washed sand – 75 Kg  -Granite chips (3-6 mm) – 75 Kg  -Water – 6 liters	<b>10 liters</b>	Semi dry cohesive consistency, 10-40 mm thickness
3.	Renders	-OPC-50Kg  -Graded sharp & washed sand – 150 Kg  -Water – 6 liters	<b>10 liters</b>	Mortar consistency, 6-9 mm thickness

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<b>4.</b>	Bonding Mortar for slip bricks & tiles	-OPC-50Kg  -Graded sharp & washed sand – 125 Kg  -Water – 7 liters	<b>10 liters</b>	Mortar consistency, 6-40 mm thickness.

## Precaution

Do not add extra water and recommended dosage is to be followed.

## TYPICAL CHARACTERISTICS

Properties	Result
Base	SBR Latex
Total active solid content	34 ± 2%
pH	8 - 9
Specific gravity at 30°C	1.01+/- 0.02
Coverage	20 – 22 sq. ft./kg for two coats

## SPECIFICATION COMPLIES

- BS6319 part2:1983
- ASTM C – 190-85

## PACKING

1 Liter, 5 Liters, 20 Liters, 200 Liters plastic container.

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## SHELF LIFE AND STORAGE

Shelf life is 12 months from the date of manufacturing. Store in a cool & dry place in unopened condition (Prevent from direct sunlight).

## DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.