

Mahacrete[™] SBR Super

SBR Latex for Waterproofing, Bonding & Repairs

Description

Mahacrete SBR Super 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 toilets & bathrooms, small terraces etc. As it bonds strongly to old & new concrete and to plasters. It reduces shrinkage, prevents cracking, dust pick up & improves abrasion resistance.

Features / Advantages

- It is multipurpose & economical product, easy to use.
- It prevents cracking by improving flexural strength.
- Improves the hardness & prevents dust generation.
- Reduces drying & aging shrinkage cracks.
- Bond strongly to concrete, masonry, stonework, plasters, cementitious surfaces.
- Improves erosion resistance & prevents corrosion.
- Improves abrasion resistance of the cement mix.
- Reduces viscosity of cement injection grout for better fluidity & bonding.

Typical Application

- Waterproofing of small terrace, toilets, bathrooms, chajja, lift pits, balconies etc.
- Masonry walls, sloping RCC roofs, etc.
- For bonding of new concrete to old concrete, masonry stone work, plastering
- Repairs to RCC members
- Fixing of slip bricks, tiles, stones & marble bedding
- Waterproofing mortars / concretes
- In repair mortars / concretes
- As bonding slurry coat for pinhole, capillaries, honeycombing treatment on concrete surface

Technical Information

Sr. No.	Parameters	Specification
1	Appearance	Single component, milky white pourable liquid
2	Viscosity by B-4 Cup	> 15 second.
3	Adhesion with concrete	Excellent
4	Total solid content (%)	36 ± 2
5	Specific gravity	1.02 ± 0.02
6	PH	9 – 10
7	Pot life	30-45 minutes, when mixed with Cement at 30°C

Methods of Application

1 - Surface preparation

Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, latencies & 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 feather edging & to provide strong bond. Clean the concrete surface to remove any contamination where breaking is not possible. Rough the surface by light scrubbing or grit blasting. For priming of concrete substrate, the surface should be thoroughly saturated with potable water. Remove any excess of water prior to application.

2 - Waterproofing Coating

For a waterproofing coating Mix Mahacrete SBR Super, water & cement in the ratio (1:2:5). Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding cement to Mahacrete SBR Super until the required consistency is achieved. Apply 2 coats by brush of the mix in the span of 4-6 hours on the prepared concrete substrate. Overlay the coating with a protective screed to the desired slope & thickness.

3 - Bonding Agent

For a bonding agent, mix Mahacrete SBR Super, water & cement in the ratio (1: 1.5: 2.5). Apply 1 coat by brush of the mix on the prepared concrete substrate. Ensure to overlay the repair mortar when the bond coat is still tacky.

4 - Repairs Mortars & Renders

A suitable mix ratio for patching repair mortar or render is as follows:

Mix design-portland cement: 50kg, washed sand: 150kg, Mahacrete SBR Super: 5L – 6L & Water: 10L – 12L

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5 - Floor Screeds & PCC

A suitable mix ratio for patching repair mortar or render is as follows:

Mix design-portland cement: 50 kg, washed sand: 75kg, 6mm downsize aggregates: 75 kg, Mahacrete SBR Super: 5L – 6L & Water: 10L – 12L

6 - Mixing & Application

A forced action mixer is essential (PAN Mixer) & recommended to ensure that Mahacrete SBR Super mortar is thoroughly mixed. 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 (or coarse aggregates as needed), cement & mix for 1-2 minutes, then add the recommended dosage of Mahacrete SBR Super dispensed in water which is pre-batched. Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding water until the required consistency is achieved.

Dosage

- As a waterproofing coating – Mix proportion; 1:2:5 (Mahacrete SBR Super: Water: Cement).
- As a mortar modifier – 10% - 15 % of Mahacrete SBR Super by weight of cement.
- As a bonding agent – Mix proportion; 1:1:2 (Mahacrete SBR Super: Water: Cement)

Coverage

- As a waterproofing coating – 3–3.5m²/Litre in 2 coats.
- As a bonding agent – 6–7m²/Litre/coat.
- As a mortar modifier – 5-6 Litre of Mahacrete SBR Super for 50kg of cement.

Precautions & Limitations

- Do not apply when the ambient temperature is below 10°C or above 45°C.
- Do not apply during rains. Application done on SSD condition
- Adhesion property may get affected over poor quality putty and very smooth surfaces.
- When applying on a concrete surface make sure the concrete is completely cured.
- For performing any kind of pond tests in case of water proofing kindly allow the membrane to be cured for minimum 7 days.
- Consume mixed material within 45 minutes.
- Do not apply coating over loose or cracked plaster surface.
- Not to be used for cathodic treatments to rebar.



Packing

1L, 5L, 20L, 50L
& 200L



Storage and Shelf life

Shelf life is 24 months in a sealed container. Store in a cool, dry place away from direct sunlight at temperatures below 30°C.



Cleaning of Tools & Equipments

Clean the tools, equipment and hands with soap and warm water, immediately after use.

Ecology, Health and Safety

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn.

If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought. If swallowed seek medical attention immediately. Do not induce vomiting.

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Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

Mahafix

WATERPROOFING SPECIALIST

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