

Mahacrete® SBR Latex - 50

SBR Latex for Waterproofing, Bonding & Repairs

Description

Mahacrete SBR Latex - 50 is a single component emulsion of styrene butadiene co-polymer based latex, specially developed to improve the properties of cementitious compositions. when it is used in combination with standard quality of ordinary portland cement, it enhances the mechanical properties such as bonding with various building materials, flexural, compression and impact strength.

Features / Advantages

- Increases mortar tensile strength.
- Multi-Purpose and economical product.
- It bonds strongly to most of the surfaces.
- It can be applied to a uniform thickness coating on horizontal and vertical surfaces.
- Makes cement mortar or coating compact which prevents salt penetration into the concrete.
- It acts as anti-corrosive for steel. It is highly durable even in continuous contact with water.
- It is resistant to water, dilute acids and alkali solutions.
- It is non-flammable & non-hazardous.
- Does not evolve toxic gases when exposed to fire.
- Non-toxic to human being.
- Most properties improve on ageing.
- Resistant to fungus and micro-organism growth.

Typical Applications

- As a bonding agent for old concrete to new concrete, industrial floor or floor duct nosing repair
- It is used as waterproof coating and site-mix mortar admixture for the following applications:
 - Bonding of rendering and coating layers.
 - Bonding between successive concrete casts.
 - Cement grouting and screeds.
 - Polymer modified repair mortars.
 - Masonry mortars, renders, tile fixing, panelling & plastering.
 - Waterproofing of toilets sunken portion, basement, water tanks, swimming pools, repairing of concrete, masonry internal & external walls & terrace roof.

Technical Information

Characteristics

Sr.No.	PROPERTIES	Specification
1	Appearance	Single component, milky white pourable liquid
2	pH value at 30° C	7.5 to 11
3	Viscosity by B-4 Cup	> 15 second.
4	Solids %	48 ± 3%
5	Specific Gravity	0.99 to 1.03
6	Durability with water (As per application)	Dilutable in any proportion
7	Mechanical Stability	Good
8	Compatibility	Compatible with cement & concrete admixtures
9	Storage Stability	Excellent
10	Toxicity	Non – Toxic

Methods of Application

Surface Preparation

- Surface preparation is the most important step before application to achieve desired results and avoid failures.
- The surface should be absolutely dry, free from dust coatings, loose particles, fungus, moss, oils, greases, mould-release agents & dirt.
- Clean the surface by scrapping & sand blasting to remove dirt & loose particles.
- Treat surface with 5%-10% hydrochloric acid, followed by complete neutralization with water which will improve bonding of the coating.
- Oils, greases & mould-release agents can be cleaned with solvents.

Curing

Moisture cure for 24 hours allow to dry out.

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Application Mixing

Areas of Application	Mix (Mahacrete SBR Latex - 50 : Water : Cement)	Method of Application
As bond coat	1:2:3	Apply a single coat of the mixed quantity of Mahacrete SBR Latex - 50. When coat is tacky, apply the plaster or concrete according to the situation. Always add cement to the liquid.
As waterproof coating	1:4:7	Apply the 1 st coat keep it to dry for approximately 4-6 hrs then apply 2 nd coat. Overlay the 2 nd coat with screed/plaster for protection and finish.
Rebar's coating	1:4:7	Rusted rebars must be thoroughly scraped, by mechanical means if required. Brush apply a single coat of prepared mix over the rebars. Apply concrete/mortar when the coat is tacky.
For 'salt petre'- free plaster brick masonry	1:4:7	Brush apply the 1 st coat on brick. Apply 2 nd coat after 1st coat is dry. When 2 nd coat is tacky, place plaster as per instruction in renders, patching & crack repair mortar.
Renders, patching & crack repair mortar	5L Mahacrete SBR Latex - 50 + 15L Water, 50kg Cement + 150kg Sand	Mix 5L of Mahacrete SBR Latex - 50 with pre-measured water for 50kg of cement. Use this mix to add to the recommended dry mortar mixes. Mortar mixes may be as rich as 1:3 (cement: sand). Keep water-cement ratio in Mortar as low as 0.4 as but not more than 0.45. Clean the cracked area properly of all loose materials. Wet the crack completely using a bottle spray. Apply a single coat as a bond coat prior to the crack filling of the Mahacrete SBR Latex - 50 as per the mixing proportions mentioned earlier. Fill the crack with above prepared mortar. Compact it into the crack fully and trowel finish to level.
As waterproof plaster	50kg OPC cement, 150kg Sand, 1L Mahacrete Latex - 50 + 20L Water	Mix 1L of Mahacrete SBR Latex - 50 with pre-measured water for 50kg of cement. Use this mix to add to the recommended dry plaster mixes. Plaster mixes may be as rich as 1:3 (cement: sand). Keep water-cement ratio in Plaster as low as 0.4 as but not more than 0.45. For better application apply a bond coat with super latex as suggested earlier. 2 nd and final layer of plaster must not be mixed with Mahacrete SBR Latex - 50. Add integral waterproofing material to the second coat plaster. Take care to scratch-key the 1 st coat surface for effective bond with the 2 nd coat.

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 to 60 minutes.
- Do not apply coating over loose or cracked plaster surface.
- Not to be used for cathodic treatments to rebar.

Coverage

Bonding & waterproofing coat:-

7 to 8m²/Litre in 2 coats, proportion mix 1 : 4 : 8 (Mahacrete SBR Latex - 50 : Water : Cement)



Packing

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



Storage and Shelf life

24 months from the date of manufacture. Shake well before using after prolonged storage.



Cleaning of Tools & Equipments

Tools & equipment's should be cleaned with 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



Nikhil Adhesives Limited

902, 9th Floor, A Wing, Kaledonia HDIL Building, Sahar Road, Opp. D-Mart,
Andheri (East), Mumbai – 400069



8655691400



support.mahafix@nikhiladhesives.com



www.nikhiladhesives.com

