

## Mahacrete<sup>™</sup> HS

### High Solid Hybrid Polymer for Bonding, Repairing & Waterproofing

#### Description

**Mahacrete HS** is a premium grade aqueous dispersion of acrylic co-polymer, specifically designed for water proofing and modifying cement compositions. Mortar modified with Mahacrete HS has improved physical strength and superior adhesion to old concrete, masonry, brick and many other surfaces. The dispersion contains an anionic emulsifier system and is free from film-forming aids, solvents and plasticizers.

#### Features / Advantages

- It is easily mixed with cement, cures to hard, tough, weather resistant surface & bonds strongly to most of the building materials.
- It can be over coated by exterior emulsion coating or cement-based paints.
- It can be applied to a uniform thickness coating on horizontal and vertical surfaces.
- It makes cement mortars or coating compact thus preventing salt penetration into concrete.
- It is unaffected by UV light and prevents discolourations of concrete and corrosion in steel.
- It is resistant to water, dilute acids, and alkali solutions.
- Coating is highly durable even in continuous contact with water.

#### Typical Application

- Waterproofing of building terrace, toilet sunken portion, basements, waterproofing of water tanks and swimming pools, sewers, Silos, foundation walls, reservoirs, channels dams, water tower & tunnels etc.
- Bridge decks, traffic aprons, runway, parking garages, industrial or factory floors, balconies etc.
- Repairing of concrete & masonry walls - internal, external and terrace roofs by cement mortars.
- Protection of concrete against corrosion and efflorescence.
- Use as an additive with cement paints, which improves waterproofing property, coverage by 10-15% and life of cement paint.
- As a bonding agent for old concrete and new concrete.

#### Technical Information

Sr. No.	Parameters	Specification
1	Appearance	Free flowing liquid
2	Color	Milky white
3	Solubility with water	Soluble
4	Non-Volatile content (ASTMD1644-03) (%)	45±3
5	Specific gravity (ASTMD1475-03)	1.00±.05
6	Compatibility with canvas cloth	Compatible
7	pH	8-10
8	Water resistance	Excellent
9	Flammability	Non-Flammable

#### Methods of Application

##### Surface Preparation

- It is the most important step before application to get best results and to avoid failure.
- The surface must be free from dust, coatings, loose particles, fungus, moss, oils and mould release agents.
- Clean the surface by scrapping, sand blasting, grinding to remove dirt & loose particles.
- Treat the surface with 5 to 10% hydrochloric acid followed by complete neutralization with water which will improve bonding of the coating.
- Oils, greases and mould release agent can be cleaned with solvents

##### Applications

###### As a bonding coat

1. Clean and wet the surface 24 hours prior to application
2. Mix Mahacrete HS water & cement at the ratio of 1:2:3 respectively by weight.
3. Apply a single coat and place the mortar while the coat is still wet.

###### As a cement paint application

1. Mix 2kg-3kg of Mahacrete HS in 50kg of a cement
2. Add a sufficient quantity of water to get desired consistency to form a uniform mix.
3. Apply two coats of the mixed cement slurry in the interval of 3-4 hours and allow the coated surface to dry completely.

###### As a repair mortar or screed

Mix Mahacrete HS in ratio of 10% – 12 % by weight of cement quantity.

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#### As a waterproofing coating

1. Prime the prepared surface with Mahacrete HS and water in the ratio of 1:4
2. Mix Mahacrete HS, water and cement in the ratio of 1:2:5 by weight and apply 2 coats in a perpendicular directions in the interval of 4-6 hours
3. Protective screed is Must.

#### Precautions & Limitations

- Do not apply when the ambient temperature is below -10°C or above +45°C.
- Do not apply during rains.
- 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.

#### Coverage

4.5 – 5m<sup>2</sup>/2 coats and coverage is depending on the substrate and site conditions.



#### 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 sunlight at temperatures below 30°C.



#### Cleaning of Tools & Equipments

Clean tools and equipment with water before the material hardens.

#### 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.

#### Disclaimer

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

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.



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