

# Mahaguard Roofcoat Ultra-705

## Fiber Reinforced Acrylic Liquid Waterproof Coating

### Description

**Mahaguard Roof Coat Ultra-705** is an elastomeric fibre reinforced waterproofing membrane. It based on special acrylic polymer with special fibers. It provides a seamless and tough waterproof barrier with excellent crack bridging ability that can accommodate movements due to thermal variations.

### Features / Advantages

- Provides excellent water resistant barrier on roof / terrace.
- Good elasticity give best crack bridging
- Tough due to fibres so good abrasion resistant.
- Suitable for light foot traffic.
- White colour gives good heat resistance.
- It is flexible and elastic.
- Surface temperature reduction upto 10°C
- Easy to apply as it is single component.
- Anti-carbonation, excellent CO<sub>2</sub> diffusion resistance hence protect corrosion of rebar.
- Can be use brush or roller for application on vertical surfaces without sagging.

### Typical application

- Building Roofs, Terraces & Balconies etc.
- External cellar sealing, Silos, store rooms & stable retaining walls
- Flat or sloping roofs, vertical walls
- Over existing cementitious waterproofing treatments like acrylic coatings, etc.

### Technical Information

| Sr.No. | Properties                | Standards        | Results                  |
|--------|---------------------------|------------------|--------------------------|
| 1      | Appearance                |                  | Viscous Liquid           |
| 2      | Color                     |                  | White/Terracotta/Grey    |
| 3      | Solid Content             | IS 101/1964      | 62 ± 2 %                 |
| 4      | Specific Gravity          | IS 101/1964      | 1.25 ± 0.03              |
| 5      | Tack Free Time @ 35°C     |                  | 2 to 3 hrs.              |
| 6      | Drying Time @ 25°C.       | ASTM D 1640 - 03 | 12 hrs.                  |
| 7      | Hardness Shore A          | ASTM D 2240-05   | > 50                     |
| 8      | Resistance to Temperature |                  | Approx. -10 °C to +80 °C |
| 9      | Elongation Break          | ASTM D 412       | > 250 %                  |
| 10     | Tensile Strength          | ASTM D 412       | > 1.8 N/mm <sup>2</sup>  |
| 11     | Crack Bridging            | ASTM C 836       | 1.5 mm                   |
| 12     | Flash Point               |                  | Non-flammable            |
| 13     | Chemical Resistance       |                  | Good                     |
| 14     | Pull-Off Adhesion         | ASTM D 4541      | >1.7 Mpa                 |
| 15     | Water Vapor Transmission  | ASTM E 96-095    | 0.97 gm/h/m <sup>2</sup> |

### Methods of Application

#### Surface Preparation

Substrate must be dry, clean, free of grease, loose particles, dust etc. Any existing cavities in concrete should be repaired with Non shrink cementitious grout in advance. Intense wide cracks on the substrate must be filled with the PS or PU sealants. For porous concrete substrate or old waterproofing layers and other porous surfaces should be primed with suitable primer.

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### Priming

Priming is required on concrete substrates. However, absorbent surfaces such as porous concrete sand/cement and cement boards will require sealing to prevent absorption of **Mahaguard Roof Coat Ultra-705**. This should be done by using **Mahaguard Uniprime** as base primer. For non-porous substrate use **Mahaguard Uniprime-11** as primer at a consumption of 5-7m<sup>2</sup>/L.

### Cracks

All shrinkage and non-moving structural cracks should be pretreated with a polymer modified mortar by using **Mahacrete SBR Super** or **Mahaproof PU-600** sealants. Allow to cure overnight before general application..

### Application

- Two coats are recommended on uneven and jointed surfaces to minimize the possibility of thin patches, missed areas and pin holes.
- In two-coat applications, it is important to re-coat within 12 hours of the first coat becoming sufficiently cured to allow operator access.
- A short haired synthetic coating brush should be used.
- If a water test is to be done, the membrane should be fully cured. Minimum 72 hrs.
- For better results use Glass Fiber Reinforcement embedded into 1st coat of **Mahaguard Roof coat Ultra-705** while 1st coat is wet. Apply 2nd coat in the interval of 8 to 10 hrs after application of 1st coat.

## Precautions & Limitations

- Do not apply when the ambient temperature is below 10°C or above 35°C.
- Do not apply during rains. Application done on SSD condition only.
- 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 test 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.



### Packing

1 L, 5 L & 20 L



### Storage and Shelf life

#### Storage:

Store in a cool dry place under shed away from heat. Shelf life is one year in original unopened conditions.

Protect the material against moisture and direct sunlight. Storage temperature: 20 to 30°C



### Consumption

1.2 m<sup>2</sup>/L/>500µm DFT. Consumption may vary & it depends on the substrate porosity.



### Cleaning of Tools & Equipments

Tools and equipment should be cleaned with water immediately after use.

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### 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

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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**<sup>®</sup>  
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