

AquaArm Tufcrete

(Formerly known as MYK TUFCRETE)

Single component Acrylic based Water tightening & bonding agent



TECHNICAL DATA SHEET

Product Description

It is acrylic polymer based, used as a cement modifier when applied, provides good bond with masonry/ cement and thus, improves the tensile and flexural strength properties of the mortar

Uses

- Waterproofing of small roof terraces, chajjas, parapets & balconies
- Sunken portions of toilets & bathrooms masonry surfaces, kitchen, sewers, residential water tanks etc.
- Repair wall
- Durable and aesthetic exterior finish with cement paint

Features and Benefits

- Multipurpose liquid, easy to use
- Breathable, allows trapped vapour to escape
- Improves flexural strength
- Reduces cracking through increased mortar flexural strength
- Bonds strongly to concrete, masonry, plasters, cementitious surfaces
- Useful as waterproof coat
- Excellent impermeability & durability in cement mortar.

Application Methodology

Step no 1: Surface Preparation

Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance and dust. Degrease the surface by using suitable solvents.

Clean the concrete surface to remove any contamination where breaking is not possible. Roughen 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.

As Water Proofing Coating

For a water proofing coating, mix AquaArm and Cement in the ratio of 1:1 by weight. Mix for 2 mins to avoid air entrapment. Gradually add cement to AquaArm Tufcrete until a homogeneous brush able consistency is attained. Apply this mixture by brush in two coats (vertical and horizontal direction) in a time interval of 4-6 hours. Apply 1st coat and allow it to dry for approximately 5 hours. Apply 2nd coat and allow it to air cure for at least 3 days. Protect the coating with a mortar screed of 15-25mm thick from damage.

Plaster over Vertical surfaces shall be done when the 2nd coat is tacky to ensure better bond with the surface.

As Bonding Agent:

Clean the surface thoroughly of its loose concrete, dust etc. and pre wet with water to a SSD (Saturated Surface Dry) condition. Ensure that there is no standing water. Brush apply a single coat over the clean surface, allow this coat to become tacky and then apply fresh concrete/mortar. If bond coat is dried, apply another to ensure effective bonding.

Mixing and Application

Use PAN Mixer to ensure through mixing of AquaArm Latex 45 mortar.

Use suitable sized drum with heavy duty electrical drill machine fitted with a spiral paddle mixer at a slow speed of 400-500 rpm.

Charge the mixer with required quantity of clean and dry sand (or coarse aggregates as needed), cement and mix for 1-2 mins, then add the recommended dosage of AquaArm Latex 45 dispensed in water which is pre batched. Mix for 2-3 mins to avoid air entrapment. Keep adding the water slowly till the required consistency is achieved.

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Technical Data

Parameters	Test Values
Appearance	Milky white coloured free flowing liquid.
Viscosity, Seconds (IS 101)	12 ± 1
Solid content (IS 101)	30 ± 3 (w/w)
pH Value (IS 9103)	>7
Bond Strength @ 14 days , N/mm ² (ASTM C 882-87)	1.5 (Minimum or concrete failure)
Recoating Time, at 27 ^o C, 65% RH, Hours (IS 101)	4 - 6
Full Cure (IS 101)	14 days
Ash Content, % (w/w) (IS 101)	< 1.0%
Volatile organic Matter (VOC) %, (w/w) (IS 101)	<1.0

COVERING CAPACITY : Tufcrete COATING/SLURRY

Mix proportion: 2 kg cement: 1 kg Tufcrete Polymer

Material	One coat on concrete Kg/m ²	Two coat on concrete Kg/m ²
Cement	0.5	0.75
AquaArmTufcrete	0.25	0.375

AquaArm Tufcrete BRUSH TOPPING

Material	Quantities of Material in Kg for One cubic meter	1 sq.m. of 1.5 thickness
Cement	860	1.3
AquaArmTufcrete	430	0.65
Fine Silica Sand	860	1.3
Total Weight in kg	2150	3.25

Dosage

For waterproofing /Bond coat
1 (AquaArm Tufcrete): 2 (cement)

Packaging

20, 50, 100, and 200 Ltrs

Storage and Shelf Life

Store in cool dry place
12 months from date of manufacturing

Health & Safety

Use of hand gloves is necessary while mixing the Product
In case of contact with skin or eyes, use plenty of water to wash and obtain medical helps immediately

Product Categories Available



Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.

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