AquaArm MultiCrete

(Formerly known as MYK MULTICRETE)

Single component Acrylic based Water Proofer & Bonding Agent

MYK arment®

TECHNICAL DATA SHEET

Product Description

It is acrylic emulsion 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, chajjas, 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.
- Is not effected by UV light.

Application Methodology

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 scrabbling 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.

Use as Water Proofing Coating:
For a water proofing coating, mix AquaArm MultiCrete and Cement in the ratio of 1:1 by weight. Mix for 2-3 mins to avoid air entrapment. Gradually add cement to AquaArm MultiCrete until a homogeneous brushable 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.

Use 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. For a Bond Coat, mix AquaArm MultiCrete and Cement in the ratio of 1:1 by weight. 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.

Use as Repair Mortar modifier:

A suitable mix ratio for patching repair mortar is as follows:
Mix design – Cement 50 Kg: Washed sand 150 Kg, AquaArm MultiCrete 5 to 7.5 Kg and Water 10 Ltr (sufficient water can be added to give the required consistency).

Mixing and Application:
Use PAN Mixer to ensure through mixing of AquaArm MultiCrete 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.

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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 MultiCrete 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.

Technical Data

Powder Component	Cement
Liquid Component	Acrylic polymer
Specific Gravity @ 27ºC	1.025
pH @ 27ºC	> 7
Solid content	28 - 29 %
Mixing Ratio	1 Part : 2 Part (max) (Liquid: Cement)
Pot Life @ 27ºC & 60 % RH: @ 20°C & 60 % RH:	Approx.30 minutes Approx.60 minutes
Time between recoat: @ 30ºC	6 to 8 hrs.
Full cure	14 days
Mixing time	2-3 minutes with mechanical mixer @ low speed

Coverage

1 Lit of AquaArm MultiCrete when mixed with 1.5 to 2 Kg cement will give coverage 2 Sq.m for 2 coats

Note: Coverage-will depend on brand of cement and its subsequent mix. As a thumb rule, 1 Kg/sq.m (mix material 1:2 ratio with cement) is applied in 2 coats. The consumption varies depending upon the critically.

Packaging

500ml, 1, 5, 10, 20, 50 &100 Lit Pack

Storage and Self Life

Sore in cool dry place in temp range from 5 to 30^{0}C in sealed condition. Do not allow to freeze. Keep away from direct sunlight.

Shelf Life-24 months from date of manufacturing.

Health and 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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