

AquaArm TC

(Formerly known as MYK TC 107)

Acrylic polymer modified semi rigid waterproofing membrane coating for concrete and masonry surfaces



TECHNICAL DATA SHEET

Product Description

AquaArm TC is a two-component acrylic polymer modified waterproofing membrane which consists of AquaArm TC powder and AquaArm TC liquid acrylic Polymer. It requires only the addition of water on site and when mixed in the proper proportions, an easily brush able coating will produce. AquaArm TC can be applied by a stiff brush, or trowel to obtain the desired thickness. AquaArm TC powder grey consists of specially selected cements, graded hard wearing aggregate sand additives supplied in powder and AquaArm TC liquid component of blended acrylic copolymers. The polymer provides AquaArm TC with exceptional adhesion, toughness and durability.

Uses

- Applied directly to the damp concrete and masonry
- Non-toxic-ideal for potable water tanks
- Waterproof - Excellent for damp proofing basements
- Breathable allows transmission of water vapor from interior of building
- Minimum surface preparation needed, Low labor Costs
- Excellent adhesion, Bonds to porous and nonporous surfaces.
- GOOD resistance to Carbon dioxide and Chloride ion diffusion.
- Excellent for concrete roof, leaking brick and masonry walls
- Easy to mixing and application by brush

Features and Benefits

AquaArm TC provides a seamless, waterproof coating suitable for use in water tanks, reservoirs swimming pools, roofs and to ensure water tightness.

AquaArm TC effectively protects against concrete decay providing a long-lasting barrier to waterborne corrosive salts and atmospheric gases

AquaArm TC is designed to reface and even out variations in concrete and masonry surfaces.

AquaArm TC effectively seals concrete masonry walls and bridges the shrinkage cracks which are static.

AquaArm TC provides a tough and durable coating which cannot be easily damaged or worn away.

Application Methodology

Step no 1: Surface Preparation:

The surface to be coated must comply with the principles of building construction and should full fill the structural requirements including properly designed sloped to avoid stagnation of water in case of roofs. Any crack spot holes expansion joints etc. should be firm, should be treated with proper treatment.

Surface to be clean, free from fats, oil grease, dust or any other surface contaminations. AquaArm TC is suitable for Concrete, screed, plasters and masonry. Make the surface at SSD condition before application.

Step no 2: Mixing Instructions and Application:

Mixing Ratio: -
Components Quantity
Powder 28 kg
Liquid 9 kg

AquaArm TC liquid is poured into a plastic or metal drum, then add half volume of desired quantity of clean fresh water** added, (for brush application consistency). Then mixing is started with a slow speed drill (350-450 rpm). The powder component is added gradually to the liquid avoiding lump formation and mixed for 2-4 minutes. Then add remaining half volume of desired qty.

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For best results moisten the surface up to SSD before coating with AquaArm TC. Apply the mixed material using a short, stiff bristle brush preferably 100 to 150mm width like a paint brush. Trowel applications can be undertaken as necessary using the correct mixing ratio to obtain satisfactory consistency. AquaArm TC shall be applied in two coats to achieve 1mm thickness. The second coat of AquaArm TC shall applied as soon as the first coat has reached touch dry state.

On hot substrates, i.e., over 40⁰ C surface temperature, A primer coat of mixed AquaArm TC Powder and water with a slurry like consistency should be applied. Prime only areas that can be coated with AquaArm TC Powder before the primer dries. Material should not be applied at temperatures below 10⁰C. It is recommended that for general resurfacing the total thickness of the applied material would be 1 to 2 mm. Areas subjected to moderate and heavy loads/hydrostatic pressure, minimum 2mm thickness coating is recommended with screed above. Allow the AquaArm TC to dry before covering with screed. Sprinkle coarse sand on wet surface of final coat for better adhesion of screed. Average drying time is 4 to 6 hours at normal temperatures (30 Deg).

For spray application: please consult technical cell.

Technical Data

Powder Component	Sand/cement
Liquid Component	Polymer dispersion
Mixed density	1.85 to 1.95
Color	Cement Grey
Potable Water	From site
Pot Life @ 27 ⁰ C & 60 %RH @ 20 ⁰ C & 60 %RH	Approx. 30 minutes Approx. 45 minutes
Time between recoat	6 to 8 hrs. @ 30°C
Application temp	Not Less than 10°C
Adhesion to concrete	Approx. 1 N/mm ²
Toxicity	Non-toxic



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Consumption

Consumption depends on the application area. The approximate coverage per pack at even consistency (1 mm thickness)* is as follows:

For packing 37 kgs - 19 m² / pack

This is theoretical coverage allowances should be made for any possible wastages when estimating. Coverage will also depend on the surface profile.

* depends on the Application area.

Packaging

Available in 37 kg Composite Pack

Storage and Shelf Life

AquaArm TC can be kept for 12 months in original unopened packaging when stored indoors. Do not store in direct sunlight and avoid allowing the material to freeze which will render the material unusable.

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Annotation

- When the coating is hardening, it must not be influenced by water, negative water can lead to ruptures under frost condition
- In areas of high humidity, extended curing time has to be taken into account
- Avoid direct sunlight during application in summer.
- Low chromate level again, mix for 1 minutes and use. More material should not be mixed than can be used within pot life. Retimbering with water should not be done. Keep on stirring during application.

Cleaning of equipments

In wet state can be clean with water

Health & Safety

AquaArm TC is non-toxic but it is alkaline in nature. Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought. Should use a dust mask while handling the powder part.



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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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