

# AquaArm 2C

(Formerly known as MYK Aquafin 2C)

Two Component Flexible Crack Bridging Waterproof Coating



## TECHNICAL DATA SHEET

### Product Description

Two component, cementitious acrylic polymer based high performance water proofing coating. It offers seamless flexible crack bridging

#### Uses

- Waterproofing of Podium, terrace, sunken slabs and balcony
- Waterproofing of water retaining structures like tanks, sump pits, Planters, drainage culverts, STP, swimming pool, water parks etc.
- Suitable for all types of structures in including coastal areas.

#### Features and Benefits

- Rapid rain proofing 3 - 5 hrs @ 30°C
- Resistance to water pressure up to 7 bar (+ve side)
- Bonds on wet surface without priming
- Protect exposed reinforced concrete from acid gases, chloride, atmospheric corrosion, CO<sub>2</sub>
- Easy application by spray roller, trowel or stiff brush
- Plant Root resistant
- UV, weather & freeze thaw resistant
- Potable water NSF 61 Certified
- Resistant to aggressive water soil acids etc.
- Environment friendly – Zero VOC

### Application Methodology

#### Step no 1: Surface Preparation

Surface need to be cleaned by wire brushing followed by vacuum cleaning so that surface is free of any loose particles, dust, laitance, mould release agents and curing compounds. Water jetting is not recommended. All cracks to be treated with Rearm SBR modified mortar. Surface is allowed to self cure for 24 hours.

#### Step no. 2: Fillet preparation

Horizontal and vertical angle joints need to be prepared with 50x50mm concave fillet using concrete admixed with AquaArm Proof WP10 @ 150 g/50 Kg bag of cement. Fillet should be cured to gain strength and completely dry before Primer application.

#### Pipe penetration sealing

Clean around Pipe penetrations and seal the junction with low viscous solvent free epoxy ArmGrout Inject EP-LV admixed with Silica sand.

#### Step no. 3: Pond Testing

Pond water for 48-76 hours and check for any leakages. Areas with leakages to be marked and treated with injection grouting, as appropriate

#### Step no. 4: Mixing Instructions

AquaArm 2C consists of a powder and liquid component. The liquid component of approx. 2/3 should be emptied into a clean mixing vessel, add slowly the powder to it.

While mixing with a slow speed mixing paddle (approx. 300 rpm) until a consistent, homogeneous, lump free mass is produced. After that, add the remaining liquid component, and stir until the uniform consistency is achieved.



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### Application:

Aqua Arm 2C can be applied by brush, trowel or appropriate spray equipment. At least two layers of Aqua Arm 2C are necessary prior to application of Aqua Arm 2C, surface needs to be pre-wetted in SSD condition (no standing water).

Post the first coat, application of the second layer, is to be done when the first layer cannot be damaged by the further application (at +30 ° C ~ 6-8 hrs). Avoid applying thickness greater than 2 kg/m<sup>2</sup> (1 mm DFT) in one application to prevent the formation of the crack.

Existing cracks can be treated with AquaArm 2C by embedding the SealArm Tape into the first layer and for moving cracks and construction joints we may use SealArm Tape 2000S.

### Technical Data

Powder Component	Sand/Cement
Liquid Component	Polymer dispersion
Mixing Ratio	24kg:11kg (Powder: Liquid)
Pot Life @ 27°C & 60 % RH	Approx.30 minutes
@ 20°C & 60 % RH	Approx.60 minutes
Time between recoat: @ 30°C	6 to 8 hrs.
Mixing time	2-3 minutes with mechanical mixer
Processing time: @ 20°C	60 Min
Processing temperature	+5 to +30°C
Hardness Shore A Scale	Approx.90
Elongation at 30°C, 28 days (ASTM D 412)	80%
Vapor Diffusion Resistance	Approx. 1000 μ
Tensile Strength, 28 days	0.4 N.mm <sup>2</sup>
Crack bridging, 24 hrs	Up to 1 mm
Pull out bonding strength, 28 days	1.5 N mm <sup>2</sup> Concrete failure



### TECHNICAL DATA SHEET

### Consumption

2Kg mixed material/Sqm for 1 mm DFT

### Packaging

- Available in 35 kg Composite Pack
- 24Kgs - Powder Component
- 11Kgs - Polymer Liquid Components

### Storage and Shelf Life

AquaArm 2C 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.

### Annotation

- When the coating is getting cured, it should not be exposed to water pressure which may lead to ruptures of membrane.
- In areas of high humidity, extended curing time has to be taken into account.

**Cleaning of equipments:** AquaArm 2C should be removed from tools and equipments with clean water immediately after use. Hardened material can be removed mechanically.



## Waterproofing System

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#### Health & Safety

- During application wear protective clothing, gloves and eye goggles during application. Avoid product to contact eyes and skin.
- Skin Contact: Wash immediately with plenty of clean water, use kerosene or mineral turpentine when the product has dried.
- Eye contact: In the event of eye contact splash plenty of clean water immediately and seek medical advice.

#### Fire

- Components of AquaArm 2C are non flammable

# MYK Arment®

#### 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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