

# AquaArm IM

(Formerly known as MYK Aquafin IM)

Crystalline repair and sealing mortar for concrete



## Product Description

AquaArm IM consists of Portland cement, treated quartz sand and compound of active chemicals. The active chemicals react with water and the by-products of cement hydration to cause a catalytic reaction, which generates an insoluble integral crystals. These crystals grow in the presence of water and block the capillaries of the concrete and minor shrinkage cracks, thus waterproofing the concrete.

### Uses

- To treat Construction Joint riglets, tie bar holes.
- Treat Cracks
- Plug & fillet work at junctions
- Repair spall & honeycomb concrete

### Features and Benefits

- Water impermeable.
- Also suitable under positive & negative hydrostatic water pressure.
- Breathable.
- Easy to use.
- Supports self-healing of concrete up to 0.5mm
- For thickness from 3 to 12 mm in one coat.
- Can also be applied on damp substrates.

## Application Methodology

### Step no 1: Surface Preparation

Use AquaArm IM exclusively on concrete and reinforced concrete substrates that are clean, sound, open pored and porous. Chisel out construction joints or, cracks to a minimum width of 20mm and a minimum depth of 25mm. Abrade smooth and dense substrates. Contaminated surfaces should be appropriately prepared by a suitable method (e.g. high pressure jetting). Dampen substrates well with water but avoid the formation of puddles.

### Step no 2: Product Mixing & Product preparation

Pour 3.75 – 4.25 litres of clean water into a mixing bucket and thoroughly stir in as much dry powder (drill with paddle 300 – 700 rpm) until a lump-free homogenous trowel able paste is achieved. Apply the mortar with a trowel or float. Only mix sufficient material that can be used within 30 minutes.

Apply a slurry bonding coat of AquaArm IC to the background and apply the AquaArm IM whilst AquaArm is still wet.

Clean equipment whilst it is still wet with fresh water. Remove dried equipment on material with FloArm Clean PU.

## Technical Data

Basis	Sand/cement, inorganic
Colour	Grey
Density	1.3 kg/dm <sup>3</sup>
Pot life (+23° C / 60% RH)	Approx. 30 minutes
Compressive Strength (28 days) (ASTM C 109)	20 N/mm <sup>2</sup>

## Consumption

- U shaped cracks cut out to 20 x 25 mm: approx. 1.5 kg/m
- Coved fillets 38 mm haunch height: approx. 1.5 kg/m

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#### Packaging

25 kg bags

#### Storage & Shelf life

Dry, 12 months in original unopened packaging.  
Use opened packaging immediately.

#### Annotation

A sound substrate is a pre-requisite for a durable bond between substrate and coating system. Weakly bonded substances or those that interfere with bonding must be completely removed. High pressure water jetting (>400bar), very high pressure jetting (up to 2000 bar) and blasting with solid blasting abrasives are suitable methods. The final cleaning method must be a water jet method.

Protect areas not be treated from the effects of AquaArm IM. AquaArm IM cannot be used as an additive for concrete or renders i.e. it may not be mixed with such products. The reaction between AquaArm IM and free lime in the Concrete can lead to small incidences of efflorescence.

This is not a defect and can be brushed away.

Do not apply to dry backgrounds.

Use suitable protective measures to prevent AquaArm IM from dewatering too quickly.

Over coat the AquaArm IM with AquaArm IC after 1-2 hours. Where this is not possible abrade the surface again and subsequently coat with AquaArm IC.

Varying final colour depends on the varying moisture content of the concrete.



## TECHNICAL DATA SHEET

#### 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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