

AquaArm Admix

(Formerly known as MYK Aquafin Admix)

Liquid Crystalline Waterproofing for concrete structures



TECHNICAL DATA SHEET

Product Description

AquaArm Admix is particularly designed for waterproof concrete constructions such as tunnels, foundations, precast elements, parking facilities, reservoirs, (sewage) water treatment plants, swimming pools and underground ducts etc.

Uses

AquaArm Admix is particularly designed for waterproof concrete constructions such as tunnels, foundations, precast elements, parking facilities, reservoirs, (sewage) water treatment plants, swimming pools and underground ducts etc.

Features and Benefits

- Permanently active; will self heal future static cracks up to 400 microns.
- Improved final strength.
- Provides additional protection to reinforcement steel by reducing chloride ion diffusion.
- Can be used in high w/c ratio (up to 0.55) concretes.
- Liquid; no lumping, easily dispersed.
- Withstands high water pressures (up to 14 bars).
- Compatible with most types of concrete admixtures.
- Eliminates need for surface waterproofing.

Application Methodology

Properties and mode of action:

AquaArm Admix is an organic, liquid admixture for waterproofing of concrete. Compared to other powder additives, AquaArm Admix prevents the formation of lumps! Beyond its waterproofing properties, AquaArm Admix increases the durability of the concrete.

During the hardening process, fine, crystalline fibers are formed in the capillaries. These fibers reduce the diameter of the concrete pores and therefore block the water transport in the concrete matrix. Concrete, modified with this product is permanently waterproof.

- Liquid, therefore easier and safer mixing – no danger of lumps!
- Increased water impermeability.
- Resists extremely high hydrostatic pressure; on Positive (active) and negative side.
- Closure of cracks up to 0.4 mm is formed after hardening.
- Becomes an integral part of the concrete.
- Concrete remains open for diffusion.
- Max. w/c ratio: 0.55.
- No adverse effects with other admixtures or workability properties
- No interference of drying or hardening properties. An increase in compressive strength of up to 8% was found with all cements tested so far.
- Permanently active.

Dosage Range:

w/c ratio < 0.45: 2 % on CEM

w/c ratio > 0.45: 3 % on CEM

Dosage in ready-mix factory:

AquaArm Admix can be dosed together with the gauging water or to the ready mix as the last component. Dosage in truck mixer on the job site:

2 - 3 m.-% of AquaArm Admix is dosed into the mixer drum and then thoroughly mixed for 3 - 5 minutes.

Pour without delay.

NOTE: Please refer protocol for the concrete oil.

Instructions for Use:

Stir AquaArm Admix well before usage.

Control of the concrete mix design regarding w/c ratio < 0,55 prior to dosing AquaArm Admix. Workability time is approx. 45 minutes after the addition of AquaArm Admix.

The addition of a concrete retarder is necessary when using Portland Cement Type II or III. Suitability tests have to be carried out before usage when using AquaArm Admix at temperatures below +10°C, the product shall be blended with water in the ratio 1:1 prior to usage.

If the material was stored at temperatures below + 8°C crystals may form. The product is suitable for usage again after stirring or homogenizing.

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Technical Data

Colour	Clear
Form	liquid
Density (20° C)	1.15 g/cm ³
pH-value	11.5
Processing Temp	+ 8°C - + 30°C

Packaging

- 200 kg drums
- 20 kg cans

Storage and Shelf Life

Protect against frost and soiling 12 months in original containers.

Annotation

- Concrete modified with AquaArm Admix may tend to effloresce depending on the composition.
- Suitability tests accord. to valid standards and norms have to be carried out prior to application.
- Aggregates must have a continuous sieve-line.
- It is recommended to perform compatibility tests with other admixtures as required.
- Concrete, modified with AquaArm Admix must be produced, placed and finished accord to valid norms.
- AquaArm Admix is non-corrosive and has no adverse effects on the re-enforcement.
- Protect surrounding areas against the influence of AquaArm Admix
- It is rarely possible that AquaArm Admix influences the setting of the concrete. Our product Armix Retard has proven as the most effective retarder.

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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