

MYK AQUAFIN[®] ADMIX

Liquid Crystalline Waterproofing
for concrete structures

Technical Data Sheet

Fields of Application:

MYK AQUAFIN 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.

Properties and Mode of Action:

MYK AQUAFIN ADMIX is an anorganic, liquid admixture for waterproofing of concrete. Compared to other powder additives, MYK AQUAFIN ADMIX prevents the formation of lumps! Beyond its waterproofing properties, MYK AQUAFIN ADMIX increases the durability of the concrete.

During the hardening process, fine, crystalline fibres are formed in the capillaries. These fibres 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.

Technical Data:

Colour :	clear
Form:	liquid
Density (20° C):	1.15 g/cm ³
pH-value:	11.5
Processing Temp:	+ 8° C - + 30° C
Storage :	protect against frost and soiling
Shelf-life:	12 months in original containers

Packaging: 200 kg drums
20 kg cans

Dosage Range:

w/c ratio < 0.45: 2 % on CEM

w/c ratio > 0.45: 3 % on CEM

Dosage in ready-mix factory:

MYK AQUAFIN 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 MYK AQUAFIN 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 Trail.

Instructions for Use:

Stir MYK AQUAFIN ADMIX well before usage.

Control of the concrete mix design regarding w/c ratio < 0,55 prior to dosing MYK AQUAFIN ADMIX.

Workability time is approx. 45 minutes after the addition of MYK AQUAFIN 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 MYK AQUAFIN 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.

Special Advice:

- Concrete modified with MYK AQUAFIN 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 MYK AQUAFIN ADMIX must be produced, placed and finished accord. to valid norms.
- MYK AQUAFIN ADMIX is non corrosive and has no adverse effects on the re-inforcement.

- Protect surrounding areas against the influence of MYK AQUAFIN ADMIX
- It is rarely possible that MYK AQUAFIN ADMIX influences the setting of the concrete. Our product REMITARD 30 has proven as the most effective retarder.

Safety Advice:

Please adhere to valid European Materials Safety Data Sheet (MSDS)!

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