

AQUAFIN[®]-1K

Waterproofing Slurry



Properties:

Aquafin-1K is a rigid hardening, cement based waterproofing material.

Aquafin-1K consists of quartz sand, Portland cement and additives. It does not contain any materials, which may cause any negative effects on reinforcement or concrete.

Aquafin-1K hardens to a rigid impervious layer. If subsequent cracking of the surface is possible, use **Aquafin-2K**.

Areas of Application:

Waterproofing on concrete, masonry and plaster, for interior and exterior use, in the following areas of application:

Civil engineering: earth covered constructions, sewage works, water tanks, swimming pools, heating pipes, pits etc.

Building construction: cellars, potable water tanks.

Water construction: retaining walls, pools, tunnels, sluices.

Older building constructions: not protected against posterior moisture and soaking water.

Technical Data:

Basis:	sand/cement, polymer improved
Density of the mixed mortar:	1.85 kg/l
Mixing ratio:	25 kg Aquafin-1K to 6.7 l tap water
Mixing time:	3 minutes
Pot life:	60 minutes
Application temperature:	+ 5°C to + 30°C
Official certificate:	impermeable to water acc. to Standard DIN 1048, for potable water uses acc. To DVGW, leaflet W270.
Cleaning:	in fresh state with water, dried material is difficult to remove.
Storage:	dry, 12 months in original unopened packs, use opened packs immediately.
Consumption of the ready mixture/strength of layer:	
Type of load 1:	earth moisture: 3.5 kg/m ² app. 2.0 mm
Type of load 2:	ground water: 3.5 kg/m ² app. 2.0 mm.
Type of load 3:	ground and backwater: 4.5 kg/m ² app. 2.5 mm.
Exposure*):	to rain after 3 hrs, foot traffic after 1 day, to pressure water after 7 days

*) at 20°C and 60% relative humidity.

Surface preparation:

The surface must be sound, mostly even, free of pockets, cracks and ridges, free of separating substances and free of oil, grease, paint or bitumen. Remove cement laitance and settleable solids by abrading.

The surface has to be moistened. Brick work areas have to be built with joints in cement mortar. Remove existing gravel pockets in the concrete as well as the bar spacers up to a depth of approx. 2cm and fill with mortar (mortar group III) with **Asoplast-MZ**. In staggered corners from concave mouldings with a cement based mortar with **Asoplast-MZ**.

During the application and the time of hardening avoid large surface ponding. Coarse-pored surfaces cause a higher consumption.

Product preparation:

Aquafin-1K is supplied in powder form. Mix on site with clean water in a clean container to a workable consistency that can be sprayed or brushed. The surface should be pre-treated in the necessary way. Application must be ensued in several coats at a consumption of 1-2 kg/m² per coat. Protect fresh **Aquafin-1K** coats against direct sun influence, draft air, rain and frost.

Important advice:

Aquafin-1K contains cement and reacts alkaline with moisture. Therefore:

- Protect skin and eyes
- Please keep out of reach of children
- In case of eye or skin irritation wash thoroughly with clean cool water
- Wear safety gloves
- In case of eye contact seek immediate medical treatment

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