

Mineral based  
waterproof slurry



## AQUAFIN®-1K

One component mineral based waterproof slurry  
„Negative waterproofing!“

**Problems solved.**



# Why **AQUAFIN®-1K**

**AQUAFIN-1K** is a rigid waterproof slurry for the inside and the outside. It resists the sulfate and is suitable for all types of support in the construction. It is open to diffusion, resistant to ageing and UV. In addition, it is certified waterproof against negative water pressure up to 1.5 bar.

## How does it work?

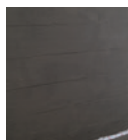
After application, a strong bond is created between the support and **AQUAFIN-1K**, which becomes an integral part of the substrate. **AQUAFIN-1K** thus forms a waterproof barrier.



## Technical Data

Basis	sand/cement, polymer modified
Density of mixed mortar	approx. 1.85 g/m <sup>3</sup>
Adhesion strength	> 0.5 N/mm <sup>2</sup> (ASTM D 4541:2002)
Pot life	approx. 60 min.
Substrate /application temp	+5° C to + 35° C
Comp. strength 28d	approx. 15 N/mm <sup>2</sup> (ASTM C 579)
Packaging	25 kg bags, 6 kg bags

## Product application



1. Pour the amount of water needed in a clean container
2. Pour the total contents of a bag of **AQUAFIN-1K** and mix until a homogeneous lump free mix is achieved. A mixing time of approx. 2-3 minutes is necessary.
3. Apply **AQUAFIN-1K** by brush, trowel or with a suitable machine.

### Tools:

Drilling machine | Mixer | Trowel | Notched trowel



## Application domains

1. Subsequent negative waterproofing against water infiltration
2. External waterproofing of new and old construction
3. Weathered or greenery covered concrete cold roofs above underground garages, prefabricated garages
4. Service water containers, waste water containers and pipes
5. Retaining walls and sluices
6. Horizontal waterproofing in/on the walls and basement



## Consumption

### Waterproofing of building elements:

Soil moisture / non-standing runoff water:

- 3.5 kg/m<sup>2</sup>/approx. 2.0 mm

Standing runoff water / water under pressure:

- 4.5 kg/m<sup>2</sup>/ approx. 2.5 mm

### Subsequent waterproofing of the components in contact with the earth:

Soil moisture / non-standing runoff water:

- Minimum 3.5 kg/m<sup>2</sup>/approx. 2.0 mm

Standing runoff water / water pressure:

- Minimum 5.3 kg/m<sup>2</sup>/approx. 3.0 mm

Waterproofing according to DIN 18195 part 7 / water under pressure from the inside:

- Minimum 3.5 kg/m<sup>2</sup>/approx. 2.0 mm

# What is negative waterproofing?

The typical case of a negative waterproofing exists when water penetrates a wall by a face and the waterproofing layer is applied on the opposite side. To make a negative waterproofing is more difficult than to make a positive waterproofing because then, the water has crossed the construction element, has arrived at the level for example, the layer of paint or tile flooring and tries to take it off from the wall.

Example of construction where a negative waterproofing is required:

- Internal waterproofing of cellar walls
- External waterproofing of water tanks
- Internal waterproofing of elevator shafts
- Internal waterproofing of tunnels
- Waterproofing of low permeable floors



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