AQUAFIN®-1K-PLUS

1 component cementitious waterproofing slurry with optimised setting









Material number	Package type	Colour	Units / pallet	Pc/package
204249001	25 kg, bag	Grey	42,000	1,000

Fields of application / waterproofing

- For presealing building components in direct ground contact for water impact classes W1.1-E, W1.2-E and W4-E
- As retroactive building waterproofing in accordance with WTA datasheet 4-6
- for waterproofing tanks and basins (W1-B in accordance with DIN 18535)
- for the repair of sulphate-damaged substrates
- for process and waste water tanks
- for interior and exterior use
- For walls and floors

Product features

- Rigid mineral-based waterproofing slurry
- Resistant to concrete-damaging water (XA2), in accordance with DIN 4030
- highly sulfate resistant
- Resistant to frost and ageing
- Vapour permeable
- Can be painted, filled and sprayed

AQUAFIN®-1K-PLUS

Advantages

- Processing time approx. 30 minutes
- Can be recoated after approx. 90 minutes - even under unfavorable ambient conditions
- watertight
- Good adhesion to the substrate under dry, wet and freeze-thaw conditions
- Improved early strength

Technical Data

Material properties

Product components	1 component system
Base material	Pre-blended dry mortar
Consistency	Paste, non slump
Density	ca. 1.85 kg/dm³
Watertightness (PG MDS/FPD)	to 1 bar
Watertightness against negative pressing water (WTA-datasheet 4-6)	to 0,75 bar
Tensile adhesion strength DIN EN 1542	≥ 0.5 N/mm²
Crack classes in accordance with DIN 18535	R0-B
Classification of the reaction to fire in accordance with DIN EN 13501-1	E

Mixing

Mixing time	approx. 3 minutes
Water addition	Approx. 6.7 l per 25 kg
Water addition (percentage)	approx. 26 - 27 %

Application

Substrate/application temperature	approx. 5 - 30 °C
Pot life	approx. 30 minutes
Method of application, max. layer thickness per application step	2mm
Consumption pro m² and mm layer thickness	approx. 1.75 kg
Consumption	approx. 3.50 - 5.30 kg/m²
Foot traffic after	approx. 24 hours
Overcoat after	approx. 90 minutes
Withstands pressurised water after	≥ 7 days

Processing equipment

Aids/tools

- Stirrer (approx. 500-700 rpm)
- Suitable mixing paddle
- Trowel
- Serrated or layer-thickness trowel
- Flat trowel
- Brush
- Spray equipment

Manual processing

- Can be trowelled off
- Applicable with a brush

Machine application

AQUAFIN®-1K-PLUS can be mechanically applied. For precise information, see the additional Technical Information No. 43.

AQUAFIN®-1K-PLUS

Suitable substrate

- Plasters P II and P III
- Masonry work
- Concrete

Preparing the substrate

Requirement for substrate

1. Load-bearing
2. Even
3. Pore open
4. Sealed in the surface
5. Free of adhesion inhibiting substances

Preparing the details

Depressions > 5 mm and mortar pockets, plaster grooves in brickwork, open butt or bed joints, damaged areas, large pored substrates or uneven masonry work must be levelled in advance with ASOCRET-M30 (cement-based mortar).

Preparing the surface

1. Pre-moisten the dry substrate so that it is matt damp at the time of application.
2. Extremely absorbent and slightly sandy substrates must be primed with AQUAFIN-Primer.
3. The primer must be completely dry / must have reacted fully before the subsequent work steps are carried out.

Base slab-wall transition

1. Pre-slurry AQUAFIN®-1K-PLUS or ASOCRET-M30 in a slurryable consistency.
2. While still wet, install a sealing cove with an edge height of at least 4 cm made of ASOCRET-M30.
3. After drying, carry out the waterproofing with AQUAFIN®-1K-PLUS.

Application

Mixing

1. Put the Approx. 6.7 l per 25 kg water into a clean mixing bucket and mix with the powder component to produce a homogeneous, lump-free mass.
2. The mixing time is ca. 3 minutes.

Waterproofing

1. Apply AQUAFIN®-1K-PLUS in a minimum of two application steps ensuring it is free of pores.
2. The second application (and following) step can take place when the first application step can no longer be damaged by reworking.
3. An even layer thickness is achieved using a coating thickness trowel or notched trowel and then smoothing.
4. A layer thickness of more than 2 mm in one application step can lead to cracking.

Cleaning tools

Clean tools thoroughly with water after use.

Storage conditions

Storage

Store in a frost-free, cool and dry place. 12 months in the original canister. Promptly use opened container.

AQUAFIN®-1K-PLUS

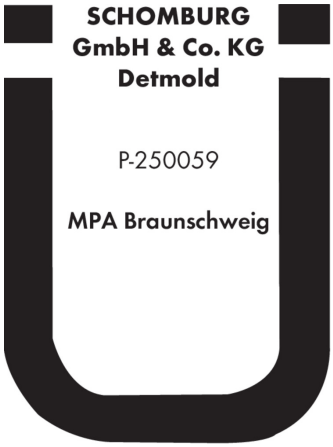
Notes

- Protect surfaces that are not to be treated from the effects of AQUAFIN®-1K-PLUS!
- In case of strong sunlight, work against the movement of the sun in shaded areas.
- The substrate may be matt damp before application. The formation of puddles must be avoided.
- After the coating has hardened, keep the surface damp for ≥ 24 hours.
- Protect the fresh coating from rain, wind, frost and direct sunlight.
- A load-bearing substrate is a precondition for a long-lasting bond between the substrate and coating system. Less adhesive and bond-damaging substances must be completely removed. High-pressure water jetting (> 400 bar; < 2000 bar) and jets with fixed blasting agents are suitable measures. The last application step must be cleaning with pressure water jetting.
- In rooms with high humidity and/or insufficient ventilation (e.g. water containers), dropping below the dew point (condensation formation) may occur on the surface. This must be avoided by taking suitable measures such as by using condensation dryers. Direct heating or uncontrolled blowing warm air is not permitted.
- In the service water tanks, temperatures around +10 °C to +15 °C are usually expected. In order to ensure complete hydration of the cement, the coating is kept damp for a sufficiently long period (constant relative humidity of > 80%) and protected against drying. 7 days are generally sufficient for this.
- Do not add water or new mortar to existing AQUAFIN®-1K-PLUS mortar that has already set in order to make it workable again. (Risk of inadequate strength development)
- For substrates that are subsequently prone to cracking, use AQUAFIN®-RS300, AQUAFIN®-RB400 or AQUAFIN®-2K/M-PLUS depending on the application.

Observe applicable safety data sheet!

Explanations

Conformity / Declaration / Verification



The rights of the buyer with regard to the quality of our materials are based on our terms and conditions of sale and delivery. Our technical advice team will be happy to advise you in the case of requirements that exceed the scope of the application described here. In order to be binding, a legally binding written confirmation is required. The product description does not release the user from a duty of care. Lay a test area in the event of uncertainty. This version becomes invalid in the event of a new version being issued.