AQUAFIN®-1K

Mineral waterproofing slurry

Material number	Contents	Unit of quantity	Packaging	Colour
204248003	25	KG	Bag	Grey
204248004	5	KG	Bag	Grey
204248001	6	KG	Bag	Grey

Product features

- Rigid mineral-based waterproofing slurry
- resistant to concrete-damaging water, in accordance with DIN 4030

Advantages

- Sulphate resistant
- Resistant to frost and ageing
- Can be applied by brush, spatula and spray
- watertight
- easy and economical application
- Adheres to matt damp substrates without primers
- Vapour permeable

AQUAFIN®-1K

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
- For interior and exterior use
- For walls and floors

Technical Data

Material properties

Product components	1 component system
Base material	Pre-blended dry mortar
Consistency	Paste, non slump
Dichte, verarbeitungsfertiges Produkt (ISO 1183-1)	approx. 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 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)	from 26 % to 27 %

Application

Substrate/application temperature	from 5 °C to 30 °C
Pot life	approx. 60 minutes
Method of application, max. layer thickness per application step	to 1 mm
Consumption (surface levelling) per mm layer thickness	approx. 1.75 kg/m²
Consumption	approx. 3.50 - 5.30 kg/m²
Second application step after waiting time	approx. 4 - 6 hours
Foot traffic after	approx. 24 hours
Pressurised water resilient after	≥ 7 days

Application technology

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
- Can be painted on with paint rollers
- Applicable with a brush

Machine application

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

AQUAFIN®-1K

Suitable substrate

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

Substrate preparation

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 ASO-Unigrund-GE or ASO-Unigrund-K.
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-screen with AQUAFIN®-1K or ASOCRET-M30 in a consistency that is able to screen.
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.

Usage

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. Mixing time is approx. 2-3 minutes.

Waterproofing

1. Apply AQUAFIN®-1K in a minimum of two application steps ensuring it is free of pores.
2. An application thickness of more than 2 kg/m² in one application step can lead to cracking.
4. An even layer thickness is achieved using a coating thickness trowel or notched trowel and then smoothing.

Cleaning tools

Clean tools thoroughly with water after use.

Storage conditions

Storage

Store in a cool and dry place. Min. 12 months in the original canister. Promptly use opened canister.

Disposal

Product leftovers can be disposed of in accordance with disposal code AVV 17 01 01.

AQUAFIN®-1K

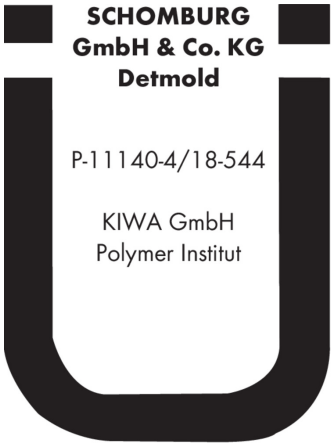
Notes

- Protect surfaces that are not to be treated from the effects of AQUAFIN®-1K!
- 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 permissible.
- 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 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.

GISCODE: ZP1

Annotations

Conformity / Declaration / Verification



AQUAFIN®-1K

Impact classes and typical applications in accordance with DIN 18533

Impact classes and typical applications in accordance with 18533			
Water exposure class		Water exposure	Example applications
W1-E		Ground moisture and non pressure water	o Capillary-bound water and water transported by capillary force even against gravity
	W1.1-E	Ground moisture and non pressure water for floor slabs and walls in direct ground	o Highly permeable subsoil o Highly permeable back-filling of the building pit o Minimum 50 cm above the design water level
	W1.2-E	Ground moisture and non pressure water for floor slabs and walls in direct ground with drainage	o Water-logging in poorly permeable subsoil is avoided through drainage o Minimum 50 cm above the design water level
W2-E		Pressure water	o Water pressing in from the outside can act as groundwater, flood water or backwater.
	W2.1-E	Moderate influence from pressure water ≤3 m immersion depth	o Backwater / flood water up to 3
	W2.2-E	High exposure to pressure water > 3 m immersion depth	o Backwater / flood water over 3 m
W3-E		Non pressure water on earth-covered ceilings	o Precipitation water that seeps through the earth fill to the waterproofing and must be drained off there
W4-E		Splash water and ground moisture at the wall base and capillary water in and under walls	o Splash and seepage water affect the plinth surfaces, floor slabs and foundations o Water can rise in capillary action in and under walls o With double-shell masonry work, rainwater running off can seep into the space between the shells

Impact classes for container in accordance with DIN 18535

Impact classes for container in accordance with DIN 18535 The water exposure class of a container depends on the filling level.	
Water exposure class	Filling level
W1-B	≤ 5 m
W2-B	≤ 10 m
W3-B	> 10 m