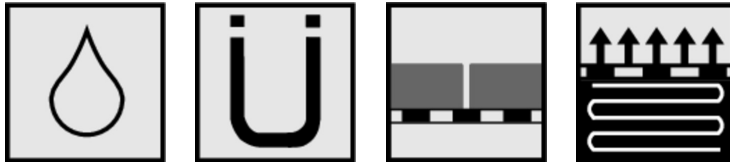


# AQUAFIN®-1K-PREMIUM

1 component Flexible waterproofing slurry



Material number	Contents	Unit of quantity	Packaging	Colour
204609001	15	KG	Bag	blackish brown

### Product features

- Flexible, 1 component waterproofing slurry
- Crack bridging
- Can be walked on and overcoated after just ca. 4 hours
- Vapour permeable

### Advantages

- Tested system component
- rapid construction progress
- Convenient compaction properties

### Areas of use/bonded waterproofing

- As bonded waterproofing under tiles and boards
- As bonded waterproofing for water impact class W0-I to W3-I in accordance with DIN 18534
- In conjunction with the SCHOMBURG joint tape systems
- For interior and exterior use

# AQUAFIN<sup>®</sup>-1K-PREMIUM

## Existing test certificates

- General building approval test certificate for producing liquid bonded waterproofing with tiles and boards in accordance with VTB seq. no. C 3.27
- Reaction to fire classification report
- Impermeability to water in accordance with DIN EN 14891
- French cert. VOC
- AgBB certificate
- EMICODE licence

## Technical Data

### Material properties

Product components	1 component system
Base material	Pre-blended dry mortar
Consistency	Powdered
Crack bridging DIN EN 1062-7	Passed
Sd value DIN EN ISO 7783 (H <sub>2</sub> O) per mm dry layer thickness	approx. 2.3 m
Vapour diffusion behaviour	Vapour permeable
Water vapour diffusion resistance $\mu$ (DIN EN ISO 7783)	approx. 2300
Watertightness when installed in accordance with PG MDS/AIV	to 0,75 bar
Classification of the reaction to fire in accordance with DIN EN 13501-1	E

### Mixing

Mixing time	approx. 2 - 4 minutes
Maturing time	approx. 2 minutes
Water addition	from 3.8 l to 4.5 l

### Application

Substrate/application temperature	from 5 °C to 30 °C
Pot life	approx. 45 minutes
Method of application, max. layer thickness per application step	to 2.5 mm
Consumption pro m <sup>2</sup> and mm layer thickness	approx. 1.25 kg/m <sup>2</sup>
Foot traffic after	approx. 4 hours
Ready for covering with tiles	approx. 4 hours
Overcoat after	approx. 4 hours
Hardening time / light resilience	approx. 7 days

## AQUAFIN®-1K-PREMIUM

System components according to AbP AIV

### Joint Sealing tape

ASO-Dichtband-2000  
 ASO-Dichtband-2000-S  
 ASO-Dichtband-2000-Ecken (Innen und Aussen)  
 ASO-Dichtmanschette-Boden  
 ASO-Dichtmanschette-Wand  
 ASO-Dichtband-120  
 ASO-Dichtecke-I  
 ASO-Dichtecke-A  
 ASO-Dichtmanschette-W  
 ASO-Dichtmanschette-B  
 ASO-Dichtband-2000-S-Ecken

### Tile adhesive

AK7P  
 CARO-FK-FLEX  
 CRISTALLIT-FLEX  
 LIGHTFLEX  
 MONOFLEX  
 MONOFLEX-fast  
 MONOFLEX-FB  
 MONOFLEX-white  
 MONOFLEX-white 3:1 with UNIFLEX-F  
 MONOFLEX-XL  
 SOLOFLEX  
 UNIFIX-S3  
 UNIFIX-S3-fast  
 ASODUR-EKF

## Application technology

### Aids/tools

- Flat trowel
- Broad paint brush
- Spray equipment
- Serrated or layer-thickness trowel
- Stirrer (approx. 500-700 rpm)
- Trowel

### Manual processing

- Can be trowelled off
- Applicable with a brush

### Suitable substrate

- The suitability of the substrate must be checked and observed, taking into account the planned water impact class of DIN 18534 and DIN 18531.
- Concrete, cement screed (CT), floor levelling compounds, calcium sulphate screeds (CA, CAF), mastic asphalt screeds (AS), magnesia screeds (MA)
- Tile bearing elements, gypsum fibre boards, gypsum boards, raised floors, cement and fibre cement boards, decoupling mats & panels, dry screeds
- Firmly adhering tiled finishes
- Cement-based plaster, gypsum plaster, cement-lime plaster, lightweight plaster

# AQUAFIN®-1K-PREMIUM

## Substrate preparation

### Requirement for substrate

1. Dry
2. Load-bearing
3. Even
4. Sealed in the surface
5. Free of cracks
6. Free from negative pressing water
7. Free of adhesion inhibiting substances and laitance layers

### Preparing the surface

1. Check the substrate and determine the residual moisture content using the CM method.
2. Remove impurities, adhesion-reducing substances and binder accumulations/laitance layers.
3. Prime absorbent substrates with ASO-Unigrund-GE or ASO-Unigrund-K.
4. Prime non-absorbent substrates with ASO-Unigrund-S.
5. Level surface irregularities in the substrate before starting waterproofing work using a cementitious levelling compound that is suitable for the application (e.g. SOLOCRET-50 or ASOCRET-M30).

### Moisture content of the CM measurement

	max. CM moisture readings
CT for screeds on insulation or a separating layer	≤ 2.0 CM %
CA <b>without</b> floor heating system	≤ 0.5 CM %
CA <b>with</b> floor heating system	≤ 0.3 CM %

## Usage

### Mixing

1. Put the water into a clean mixing bucket and mix with the powder component with a stirrer to produce a homogeneous, lump-free mass.
2. The mixing time is ca. 2 - 4 minutes.

### Application

1. Prepare the substrate according to the substrate requirements.
2. Allow the primer to dry before the subsequent work steps.
3. Apply AQUAFIN®-1K-PREMIUM using suitable tools in at least 2 application steps.
4. The previous coat must be completely dry before the next coat is applied.
5. The minimum dry film thickness of ≥ 2 mm must be guaranteed.
6. A sufficient amount of material must be applied to achieve the required dry film thickness in accordance with the desired water impact class.
7. Voids must be reworked.
8. Tiles and boards are laid (in accordance with DIN 18157-1 in thin-bed laying) after readiness to receive a thin-bed mortar that was tested in the system.

### Formation of intersections, movement and connecting joints

Use the ASO-Joint-Tape-2000 system or the ASO-Joint-Tape system along with the required pre-formed pieces to form movement and connecting joints, as well to integrated intersections and assembly parts. The joint sealing tape and the pre-formed pieces are embedded in the first layer of waterproofing material and covered with the second layer. Transitions and or connections between joint tapes and pre-formed pieces must be formed with an overlap of 50 mm. Check elements such as linear drainage systems for suitability in advance and include them in the bonded waterproofing in accordance with the manufacturer's specifications.

### Cleaning tools

Rinse tools immediately with water. Dissolve dried material with ASO-R001 and wash off.

## Storage conditions

### Storage

Store in a cool and dry place. Min. 9 months in the original canister. Promptly use opened canister.

# AQUAFIN®-1K-PREMIUM

## Disposal

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

## Emission behaviour / building certification systems

- Very low emissions in accordance with GEV-EMICODE, which normally results in positive evaluations within the scope of building certification systems in accordance with DGNB, LEED, BREEAM, HQE.
- Maximum quality level 4, lines 7 and 8 in accordance with DGNB criteria "ENV 1.2 Risks to the local environment".
- Suitable for indoor use in accordance with the evaluation scheme of the AgBB (committee for health-related evaluation of building products) and the "French VOC regulation" (French VOC classification regulation and KMR emissions regulation)

## Notes

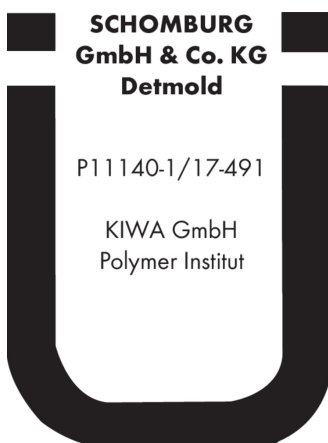
- Direct contact with metals such as copper, zinc, and aluminium must be avoided by means of a pore sealed primer.
- Dropping below the dew point (condensation) must be prevented during the application and drying phases on the substrate and AQUAFIN®-1K-PREMIUM.
- Expect a longer drying time in rooms with low temperatures, high humidity and insufficient ventilation. Direct heating is not suitable for these rooms.
- Protect surfaces that are not to be treated from the effects of AQUAFIN®-1K-PREMIUM!
- The waterproofing must not be affected by water while it is binding. The effect of water from behind can lead to spalling in case of frost.
- The CM measurement must be completed in accordance with the current working instructions FBH-AD from the technical information "Interface coordination with heated floor constructions".
- Protect the product from water, frost, draughts, direct sunlight and mechanical loads until it has dried completely.

**Planning, inspection of substrates and building site circumstances, laying, grouting and subsequent care of the work must be done in accordance with the relevant DIN standards and recognised rules of technology (e.g. the ZDB sheets of the Zentralverband Deutsches Baugewerbe e.V.) in the latest version.**

GISCODE: ZP1

## Annotations

Conformity / Declaration / Verification



## AQUAFIN®-1K-PREMIUM

System components (conforming to standards)

System components	Water exposure classes W0-I to W3-I without chemical influence, in accordance with DIN 18534 and ZDB data sheet "Bonded waterproof systems (AIV)"
AQUAFIN-1K-PREMIUM	x
ASO-Unigrund-K	x
ASO-Unigrund-GE	x
ASO-Unigrund-S	x
ASO-Joint-Tape-2000	x
ASO-Joint-Tape-2000-S	x
ASO-Joint-Tape-2000-Corners, (90°, inside/outside)	x
ASO-Joint-Tape-2000-S-Corners, (90°, inside/outside)	x
ASO-Joint-Tape-2000-T, crossing	x
ASO-Joint-Sleeve-Floor/Wall	x
ASO-Joint-Tape-120	x
ASO-Joint-Sleeve-Wall	x
ASO-Joint-Tape-Corner-I/A	x
ASO Slope Corner	x
ASO-Joint-Sleeve-Floor	x
UNIFIX-S3	x
LIGHTFLEX	x
MONOFLEX-white	x
MONOFLEX-white modified with UNIFLEX-F in a mass ratio of 3:1	x
MONOFLEX	x
MONOFLEX-XL	x
MONOFLEX-FB	x
ASODUR-EK98-Wall/Floor	x
ASODUR-DESIGN	x
ASODUR-EKF	x
CRISTALLFUGE-EPOX	x
SOLOFLEX	x
MONOFLEX-fast	x
AK7P	x
CRISTALLIT-FLEX	x
UNIFIX-S3-fast	x

## AQUAFIN®-1K-PREMIUM

Impact classes and typical applications in accordance with DIN 18534-1

Impact classes and typical applications in accordance with DIN 18534-1			
Water exposure class	Water exposure		Example applications
W0-I	Low	Surfaces with less frequent exposure to splash water	<ul style="list-style-type: none"> <li>o Areas of wall surfaces above wash-basins in bathrooms and sinks in domestic kitchens</li> <li>o Areas of floor surfaces in domestic areas without drains, e.g. in kitchens, utility rooms, guest WCs</li> </ul>
W1-I	Mode	Surfaces with frequent exposure to splash water or less frequent exposure to service water, without intensification due to accumulating water.	<ul style="list-style-type: none"> <li>o Wall surfaces above bath-tubs and in showers in bathrooms</li> <li>o Floor surfaces in the domestic area with drain</li> <li>o Floor surfaces in bathrooms with/without drain without high exposure to water from the shower area</li> </ul>
W2-I	High	Surfaces with frequent exposure to splash water and/or service water, mainly on the floor but temporarily intensified by accumulating water	<ul style="list-style-type: none"> <li>o Wall surfaces of showers in sports facilities/commercial sites</li> <li>o Floor surfaces with drains and/or gutters</li> <li>o Floor surfaces in rooms with showers that are flush with the floor</li> <li>o Wall and floor surfaces of sports facilities/commercial sites</li> </ul>
W3-I	Very high	Surfaces with very frequent or long-lasting exposure to splash and/or service water and/or water from intensive cleaning procedures, intensified by accumulating water	<ul style="list-style-type: none"> <li>o Surfaces in the area around the perimeters of swimming pools</li> <li>o Surfaces of showers and shower facilities in sports facilities/commercial sites</li> <li>o Surfaces in industrial sites (professional kitchens, laundries, breweries, etc.)</li> </ul>

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