AQUAFIN®-2K

2 component, flexible, mineral-based waterproofing slurry

Technical Data:

Basis:	AQUAFIN®-1K Sand/cement	UNIFLEX®-B Polymer dispersion
Mixing ratio:	3 parts by weight	1 part by weight
Packaging:	25 kg bag 6 kg bag	8.33 kg bucket 2 kg bucket
Colour:	grey	white
Ready for foot traffic/ ready to receive finishes*:	combined product after approx. 24 hours	
Pot life:	approx. 60 min.	
Wet duty classification:	A, B, A0, B0	
Substrate/Material/ Application temperature:	+5 °C to +30 °C	
Consumption:	approx. 1.75 kg per m²/mm thickness	

* at +20° C and 60% relative humidity

Areas of application:

- Waterproofing combined with tiled finishes:
  For the effective and assured waterproofing in combination with tiled finishes when longer term or frequent impermeability to water is required e.g. in private bathrooms and kitchens, private and public sanitary areas as well as balconies and terraces, swimming pools and pool surrounds.
- AQUAFIN®-2K is suitable for wet duty exposure classes A and B in accordance with the technical test criteria for regulated areas and wet duty exposure classes A0 and B0 in accordance with the ZDB data sheet "Bonded waterproof membranes".

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AQUAFIN®-2K

2 component, flexible waterproofing slurry

Properties:

- 2 component
- Can be applied by brush, trowel or with suitable spray equipment
- Bonds to damp substrates without priming
- Simple effective application
- Flexible and crack-bridging
- Suitable for all sound, load-bearing conventional substrates used in construction
- For interior and exterior use

SCHOMBURG GmbH & Co. KG Detmold

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P-2002-4-1023/02B

KIWA MPA Bautest GmbH, NL Dresden

CE

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EN 14891
AQUAFIN®-2K

Liquid-applied water impermeable cement-based product for use beneath ceramic tiling in external areas

EN 14891: CM

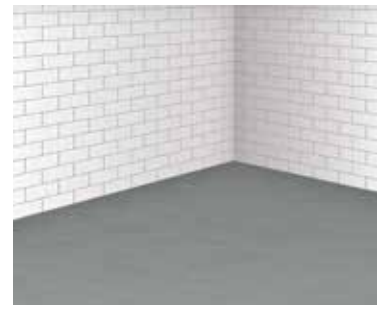
Initial tensile adhesion strength:	≥ 0.5 N/mm²
Tensile strength	
after contact with water:	≥ 0.5 N/mm²
after heat ageing:	≥ 0.5 N/mm²
after freeze/thaw cycles:	≥ 0.5 N/mm²
Water impermeability:	no water penetration
Crack bridging:	≥ 0.75 mm

Product application:
Place the liquid component, UNIFLEX®-B, into a clean mixing bucket and stir in the powder until a homogenous, lump free mix is achieved. A mixing time of approx. 2-3 minutes is necessary when mixing with power tools (approx. 500-700 rpm). In order to achieve a workable consistency up to a maximum of 5% clean water (=1.67 litres / 33.3 kg) can be added, dependent on the weather, method of application and substrate absorption.

1. Prepare the substrate appropriate to its requirements.
2. Pre-wet the cementitious substrate so that it is matt damp at the time the AQUAFIN®-2K is applied. Prime very porous and slighty sanded substrates with ASO®-Unigrund. Allow the primer to dry before successive work steps.
3. Apply a minimum of two coats of AQUAFIN®-2K by brush or trowel. Only apply the second and successive coats once the one beneath will not be damaged by foot traffic or during application (approx. 4-6 hours at +20° C/63% RH). An even thickness is achieved by using a 4 to 6 mm notched trowel followed by smoothing flat. Avoid applying thicknesses greater than 2 kg/m² as a single coat as there is a risk of cracks appearing in the waterproof layer due to the high binder content.
   Alternatively AQUAFIN®-2K can be spray applied with suitable equipment such as e.g. HighPump M8 (Peristaltic pump), HighPump Small or HighPump Pictor (screw feed pump). Information on the above can be obtained from HTG HIGH TECH Germany GmbH.
4. For forming water impermeable movement and connecting joints use the ASO®-Joint-Tape system. Using a 4-6 mm notched trowel, apply AQUAFIN®-2K to both sides of the joint to be bridged to a min. 2 cm wider than the Joint-Tape. Lay the ASO®-Joint-Tape system into the wet coat and then thoroughly press down into the waterproofing coat with a steel trowel or hard roller, without voids or folds. Ensure that a solid bed and complete wetting is achieved as far as possible. Bonding must be carried out in such a way as to exclude water migration around the back of the ASO®- Joint-Tape system. Lay the Joint-Tape system in a loop over movement joints. Overlap Joint-Tape ends by min. 5 to 10 cm fully bonded with AQUAFIN®-2K without voids or folds, then overcoat.
5. Floor drains should have a thin-bed flange of a minimum circumferential width of 5 cm to take the ASO®-Joint-Sleeve and consist of suitable materials for bonding, such as e.g. stainless steel, gun metal or PVC-U.
6. Thin-bed bonding of the tiles is carried out with polymer modified adhesives such as e.g. AK7P, MONOFLEX-XL, SOLOFLEX, UNIFIX®-2K/6 etc.

Application:
All flat, load-bearing surfaces, to which tiles can be fixed and a bonded waterproof membrane applied, are suitable. Furthermore the suitability of the substrate for use in the appropriate wet duty exposure class must be given (see ZDB data sheet "bonded waterproof membranes").
The substrate must be load-bearing, adequately flat to DIN 18202, free from penetrating cracks and free from separating substances such as e.g. oil, paint, laitance layers and loose components. Renders/plasters to DIN EN 998-1 must have a minimum compressive strength of 2.5 N/mm² for the installation of tiles and be suitable for the relevant wet duty exposure class.

Ensure there are no height differentials within the substrate, and that moisture migration from beneath is prevented.



1 Load-bearing substrate

2 Cleaning the substrate

3 Priming the substrate, e.g. with ASO®-Unigrund

4 Filling out the waterproofing membrane at the pre-determined mix ratio

5 Mixing the waterproofing membrane

6 Bonding the ASO®-Joint-Tape into the first coat of the waterproofing membrane

7 Application of the first coat of waterproofing membrane

8 Allow the first coat to dry

9 Application of the second coat of waterproofing membrane

10 Finished waterproofing membrane ready to receive finishes

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