AQUAFIN®-1K-PREMIUM

1 component Flexible waterproofing slurry

Material number	Package type	Colour	Units / pallet	Pc/package
204609001	15 kg, bag	blackish brown	54,000	1,000

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

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

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Existing test certificates

- General building approval test certificate for producing liquid bonded waterproofing with tiles and boards in accordance with VVTB 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 (H2O) per mm dry layer thickness	approx. 2.3 m
Vapour diffusion behaviour	Vapour permeable
Water vapour diffusion resistance μ (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	approx. 3.8 l - 4.5 l

Application

Substrate/application temperature	approx. 5 - 30 °C
Pot life	approx. 45 minutes
Method of application, max. layer thickness per application step	up to 2.5 mm
Wet film thickness (yields 1 mm dry film thickness)	approx. 1.1 mm
Consumption pro m² and mm layer thickness	approx. 1.25 kg/m²
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

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System components in accordance with 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

Suitable substrate

- Concrete
- Cement-based screed (CT)
- Floor levelling compounds
- Calcium sulphate screeds (CA, CAF)
- Bonded waterproofing
- Tile bearing elements
- Gypsum fibre boards
- Gypsum boards
- Raised floors
- Cement and fibre cement boards
- Decoupling mats & boards
- Dry screeds
- Cement plaster
- Gypsum plaster
- Lime-cement plaster
- Light plaster

Preparing the substrate

Moisture content of the CM measurement

	max. CM moisture readings
CT for screeds on insulation or a separating layer	≥ 2,0 CM %
CA **without** floor heating system	≥ 0,5 CM %
CA **with** floor heating system	≥ 0,3 CM %

Application

Mixing

1. Fill 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.

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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-Dichtband 2000 - System or the ASO-Dichtband-System along with the required pre-formed pieces to form movement and connecting joints, as well to integrated intersections and assembly parts. Bond joint sealing tapes, joint-tape edges or connections with the waterproofing material and fill in the overlap area and the edge zone with filler. 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

Clean tools immediately after use with suitable solvent.

Storage conditions

Storage

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

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 during 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 thetechnical information "Interface coordination with heated floor constructions".
- Protect the product from water, frost, draughts, direct sunlight and mechanical loads until it has dried completely.

Relevant regulations

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 Data sheets of the Zentralverband Deutsches Baugewerbe e.V.(German construction Association) in the latest version.

Observe applicable safety data sheet!

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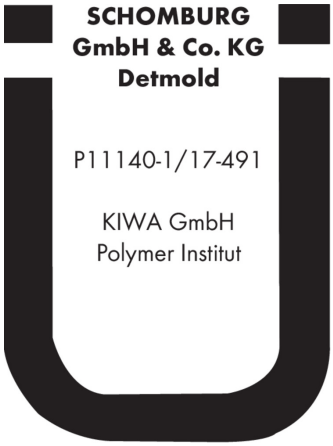
Explanations

Conformity / Declaration / Verification



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System components (conforming to standards)

System components	Water exposure classes W0-I to W3-I without chemical exposure, in accordance with DIN 18534 and the ZDB technical information sheet "Composite Waterproofing (AIV)"
AQUAFIN-1K-PREMIUM	X
ASO-Unigrund-K	X
ASO-Unigrund-GE	X
ASO-Unigrund-S	X
ASO-Dichtband-2000	X
ASO-Dichtband-2000-S	X
ASO-Dichtband-2000-Ecken, (90°, inside/outside)	X
ASO-Dichtband-2000-S-Ecken, (90°, inside/outside)	X
ASO-Dichtmanschette-Boden/-Wand	X
ASO-Dichtband-120	X
ASO-Dichtmanschette-W	X
ASO-Dichtecke	X
ASO-Gefälleecke	X
ASO-Dichtmanschette-B	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
ASODUR-EKF	X
CRISTALLFUGE-EPOX	X
SOLOFLEX	X
MONOFLEX-fast	X
AK7P	X
CRISTALLIT-flex	X
UNIFIX-S3-fast	X

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

Exposure classes and typical applications according to DIN 18534-1			
Water exposure class	Water exposure		Application examples
W0-I	low	Surfaces not frequently exposed to splashing water	• Areas of wall surfaces above sinks and washbasins in domestic kitchens • Areas of floor surfaces in domestic areas without drains, e.g., in kitchens, utility rooms, guest restrooms
W1-I	moderate	Areas frequently exposed to splashing water or occasionally exposed to service water without intensification due to standing water	• Wall surfaces above bathtubs and in showers in bathrooms • Floor surfaces in residential areas with drains • Floor surfaces in bathrooms with or without drains, without significant water exposure from the shower area
W2-I	high	Surfaces frequently exposed to splash water and/or service water, especially on the floor, where exposure is occasionally intensified by standing water	• Wall surfaces of showers in sports/commercial facilities • Floor surfaces with drains and/or gutters • Floor surfaces in rooms with floor-level showers • Wall and floor surfaces in sports/commercial facilities
W3-I	very high	Surfaces subject to very frequent or prolonged exposure to splashing and /or service water and/or water from intensive cleaning procedures, intensified by standing water	• Surfaces in the vicinity of swimming pool walkways • Surfaces of showers and shower facilities in sports /commercial facilities • Surfaces in commercial facilities (commercial kitchens, laundries, breweries, etc.)