



Technical Data Sheet

AQUAFIN®-2K

Art.-No. 2 04250

Two-component, flexible waterproofing slurry

Properties:

- Seamless and jointless, flexible, crack bridging waterproofing compound.
- Suitable for all sound conventional construction substrates.
- Hydraulic binder.
- Rainproof after a short time period.
- Environmentally friendly.
- Simple economical application.
- Can be sprayed with suitable equipment, brush or trowel applied.
- Bonds without priming on damp substrates.
- Vapour permeable, frost and resistant to ageing.
- Water impermeable to 7 bar.
- Resistant to water aggressive to concrete in accordance with DIN 4030.
- As a tanking system beneath tiling.
- General technical test certificate available.

Areas of application:

External waterproofing of new and existing buildings in the ground against ground moisture, water not under pressure, water under pressure (with suitable construction), horizontal damp proofing beneath brickwork, internal waterproofing against negative moisture pressure, weathered or planted concrete cold roofs of subterranean garages, prefabricated garages, containers, service water containers, sewage and waste water containers and canalisation, waterproofing beneath tiles under moderate and heavy duty water use, in damp environments, on balconies and terraces, in swimming pools. As an adhesive for ASO-Dichtband-2000, ASO-Dichtband-2000-S and ASO-Dichtmanschette.

Technical Data:

	AQUAFIN-1K	UNIFLEX- B
Basis:	Sand/cement	Polymer dispersion
Mixing ratio:	3 parts by weight	1 part by weight

Packaging:	25 kg bag, 6 kg pack	8.33 kg bucket, 2kg bucket
Colour:	grey	white

Combined product

Mixing time:	3 minutes (mixing drill 300 rpm)
Pot life *):	60 minutes
Application/ substrate temperature:	+5° C to +30° C
Storage:	cool and dry, 12 months
Crack bridging:	approx. 1.0 mm at 2 mm dry film thickness
Coefficient of vapour diffusion resistance μ :	approx. 1000
Density of the mixed mortar:	approx. 1.5 g/cm ³
Cleaning tools:	in the fresh state with water, dried material is difficult to remove

Loading condition / material consumption /
dry film thickness

- Ground moisture / non standing backwater:
min. 3.5 kg/m² = 2 mm
- Non hydrostatic water pressure:
min. 3.5 kg/m² = 2 mm
- Rising backwater / hydrostatic water pressure:
min. 4.5 kg/m² = 2.5 mm

Dry film thickness:

The dry film thickness must be a minimum of 2 mm for ground moisture / non standing backwater as well as under damp duty classifications I, II and III in accordance with the ZDB.

With rising water, hydrostatic water pressure (also bonded waterproofing beneath tiling in swimming pools) the minimum thickness must be 2.5 mm.

Greater material consumption must be allowed for with uneven substrates.

AQUAFIN[®]-2K

Ready for load *):

- From rain after approx. 3 hours.
- From foot traffic after approx. 1 day.
- From hydrostatic water pressure after approx. 7 days.
- Backfilling of building trench after approx. 3 days.
- Ready for tiling after approx. 1 day.

*) at +20° C and 60% relative humidity.

Surface preparation:

The substrate must be load bearing, mostly even and have a finely porous surface. It must be free from pockets, gaping cracks and ridges, dust, mould release agents and separating substances.

Suitable substrates are concrete with tight joints to DIN 1045, screed, asphalt, renders/plasters PII and P III, plasterboard and gypsum fibreboard, brickwork/blockwork to DIN 1053. No fines substrates such as hollow blocks, dense concrete blocks and pumice blocks as well as vertical and horizontal mortar joints in walling that are not flush pointed must be trowelled over with AQUAFIN 1K. Dampen mineral based substrates so that they are matt damp at the time of product application. Prime very porous substrates as well as aerated concrete or gypsum containing substrates with ASO-Unigrund to improve adhesion.

Internal angles and wall/floor junctions:

Where building elements are in direct contact with the ground bond ASO-Dichtband-2000-S with AQUAFIN-2K and overcoat.

Alternatively: Form a coved fillet with a radius of 4 – 6 cm with the pre-blended mortar ASOCRET-RN or a cement-based mortar (MG III) with ASOPLAST-MZ.

Slurry coat the fillet area slurry with the bonding agent AQUAFIN-1K including the leading edge of the foundations. Apply the filleting mortar to the wet AQUAFIN-1K coat. Once cured, carry out the waterproofing with AQUAFIN-2K.

With bonded waterproofing beneath tiling bond ASO-Dichtband-2000 with AQUAFIN-2K.

Product preparation:

Pour UNIFLEX-B liquid component into a clean container and add the AQUAFIN powder component whilst stirring until lump free. To achieve a workable consistency up to a maximum of 5% (=1.67 litres per pack) of clean water can be added dependent on atmospheric conditions and porosity of the substrate. When applying AQUAFIN-2K at least two complete void free coats are necessary. In all cases the applied thickness of waterproofing must correspond with the required minimum thickness for the expected wet duty conditions. Brush apply the first coat on to the matt damp substrate with a builders brush or roofers brush to saturation ensuring a complete void free coverage. Apply the second coat and potential further coats in the same manner or with a smooth trowel. Only apply the product when the first slurry-applied coat will not be damaged by further applications (at +20° C after 4 hours at the earliest). Avoid applied thicknesses of greater than 2 kg/m² (=1 mm dry film thickness) in one application. There is a risk of cracking due to the high levels of binder.

Important advice:

- Protect the freshly applied coating from rain, frost and extreme direct sunlight.
 - Dampen very dry substrates before application.
 - In rooms with high humidity or inadequate ventilation (e.g. water containers) allow for extended drying times.
 - In strong sunshine work against the direction of the sun. Dampen very dry and porous substrates before application. However there should be no film of water.
 - Do not subject the waterproofing compound to water during curing. Negative water pressure can lead to delamination during frost.
 - AQUAFIN-2K can be over-rendered and also painted with vapour permeable, solvent free paints (but not silicate paints).
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AQUAFIN[®]-2K

- Eliminate direct contact with metals such as copper, zinc and aluminium with a pore-tight primer. A pore-tight primer can be produced with two applications of ASODUR-GBM. Apply the first coat thoroughly to the cleaned substrate and carefully brush in. As soon as this coat has dried sufficiently so that it can no longer be brushed through (approx. 3 – 6 hours) brush on a second coat of ASODUR-GBM and broadcast with quartz sand of particle size 0.2 – 0.7 mm. Consumption approx. 800 – 1000 g/m² ASODUR-GBM.
- Protect areas not to be treated from the effects of AQUAFIN-2K.
- To waterproof PVC and stainless steel flanges, abrade the flange, degrease with a universal cleaner, apply AQUAFIN-2K and bed in the ASO-Dichtmanschette without voids or folds.
- AQUAFIN-2K is a waterproof coating and must be protected through suitable measures.
- Do not apply solvent-based products to AQUAFIN-2K.

The powder product is classified as "irritant" in accordance with the ordinance on hazardous goods.

Please observe a valid EU health and safety data sheet.

Low chromate in accordance with TRGS 613.

GISCODE: ZP1 (powder component)

GISCODE: D1 (UNIFLEX-B)