

# AQUAFIN®-2K/M

## Flexible two component waterproofing coating



### Properties:

- Seamless and jointless, flexible, crack bridging waterproofing
- Suitable for all load-bearing and similar surfaces
- Hydraulic setting
- Rapid rain-proof
- Environmentally friendly
- Easy and economical application
- Simply applied by spray, roller, trowel or stiff brush
- Bonds on wet surfaces without priming
- Vapour permeable
- UV, age and frost resistant
- Waterproof resistant to 7 bar
- Resistant to concrete aggressive water acc. to Standard DIN 4030
- For fixing tiles in water retaining structures
- General technical test certificate available.
- Potable water approval according to DVGW W347
- Root resistance acc. To Swiss Society of Engineers & Architects: SIA V 280 No. 11

### Areas of application:

#### General waterproofing:

External waterproofing of old and new buildings against ground moisture, humidity, pressure water. Horizontal waterproofing beneath masonry. Internal waterproofing against humidity from outside. For waterproofing of underground car parks, prefabricated garages, containers, service water tanks, liquid manure containers, canalization, areas of high humidity, terraces, balconies and swimming pools. For the fixing of Aso-Joint-Tape-2000, Aso-Joint-Tape-2000-S and Aso-Joint-Sleeve.

#### Waterproofing beneath tiles:

Safe and economic waterproofing beneath tiles in wet rooms, where water impermeability against long term and permanent water table is demanded, i.e. in bathrooms, kitchens, shower rooms, on balconies and terraces. Also for the waterproofing inside swimming pools.

	Powder Comp.	Uniflex.M
Basis:	Sand/Cement	Polymer disp.
Mixing ratio:	5 weight parts	2 weight parts
Delivery:	25 kg bag 2 kg bag	10 kg pails 2 kg pails
<b>Combination Product</b>		
Mixing time:	2-3 min. (drilling machine min. 300-500 r/min)	
Density	1.5g/cm <sup>3</sup>	
Pot life: at 23°C, 60% RH at 35°C, 65% RH	approx 60 min approx 20 min	
Material temperature	+15°C to +35°C	
Surface/Processing Temperature:	+5°C to 35°C	
Service temperature traffic non traffic	-15°C to +50°C -20°C to +60°C	
Adhesive strength:	approx. 1.5 n/mm <sup>2</sup> at 28d	
Tensile strength, DIN 53504:	1.3 n/mm <sup>2</sup> at +23	
Tensile elongation DIN 53504:	approx 80% at +23°C	
Crack bridging ability DIN 28052-6	> 1.6mm for 2mm dft > 1.4mm for 1.5mm dft > 1.3mm for 1.0mm dft	
Vapour diffusion resistance number	approx 1,000μ	
Shore A:	approx 85	
Sd-value:	approx 2m	
Sd -value, CO <sub>2</sub> :	approx 211m	
Flammability class, DIN 4102 Part 1:	B2	
Waiting time until 2 working step:	Approx. 1.5 to 4 hours depending on the atmospheric conditions	
Exposure to**):	- rain after approx. 3 hours - pedestrian traffic after approx. 1 day - pressure water after approx. 7 days - setting of tiles after approx 1 day	

\*) For temperature over +40°C: Have a look at the description in the method statement for tropical climate  
\*\*) at ambient temperature of +20°C and 60% relative humidity



**Loading case/consumption/dry layer thickness**

**Positive waterproof**

Type of application	Water head	Total recommended Consumption (kg/sq.m)	Min. dry thickness (mm)**
Roofs, decoupled	Below 1m traffic	2.0-2.25 2.5-3.0 *)	1.0 1.3
Roofs, composite waterproofing	Below 1m traffic	2.5-3.0 3.0-4.0 *)	1.3 1.5
Balconies/terraces	Non tiled tiled	3.0-4.0 4.0	1.5 2.0
Plaza decks		3.0-4.0 *)	1.5
Swimming pools	Small to medium Olympic, non tiled	3.0 3.0-4.0	1.5 1.5
	Olympic, tiled normal adhesive	4.0-4.5	2.0
	Olympic, tiled adhesive UNIFIX-2K/6	3.0	1.5
Fountains	Up to 1.0m	2.0-2.5	1.0
	Up to 1.5m	3.0-3.5	1.5
Water tanks	Normal water tanks	3.0-4.5	1.5
	Portable water tanks	4.0-4.5	2.0
Below grade	Below 2m	2.0-2.5	1.0
	Below 2-4m	3.0	1.5
	Below 4-7m	3.5	1.8
	Below 7-10m	4.0	2.0
	Above 10m	4.5	2.3

**Negative waterproofing below grade and direct water contact (on Aquafin-1K substrate):**

Cleaning: packs, consume open packs immediately  
In wet condition with water, cured material is etched with **Aquafin-cleanser**

Type of application	Water head	Total recommended consumption (kg/sq.m)	Min. dry thickness (mm)**
Below goods	Below 2m	2.0-2.5	1.0
	Below 2-4m	3.0	1.5
	Below 4-7m	3.5	1.8
	Below 7-10m	4.0	2.0
	Above 10m	4.5	2.3

**Surface preparation:**

The surface must be clean, sound and fine pored. It must be free from grease, dust, pockets, cracks and ridges. **Aquafin-2K/M** is suitable for smooth concrete, screed, mastic asphalt, plaster, gypsum boards and masonry. Coarsely pored surfaces like gutter blocks or precast concrete blocks have to be grouted with cement mortar or **Asocret-FS** or **Aquafin-1K**. Prime highly absorbent surfaces like light weight concrete or gypsum boards with **Aso-Unigrund** (primer) to improve adhesion.

Use suitable methods to prepare the substrate dependent on its condition such as e.g. brushing, vacuuming, grinding, milling, shotblasting and water jetting.

**Product preparation**

Pour approx. 2/3 of the liquid component **Uniflex-M** into a clean container and add **Aquafin** powder component whilst stirring until a lump free mass is achieved. After that add the remaining **Uniflex-M** and stir until a uniform consistency is achieved. The surface has to be wetted

\*) Depends on the amount of traffic  
\*\*) Min. thickness of cured film on any point of the coating. These are technical limits of the product and do not reflect legal requirements for your application. Please review local building codes for conforming minimum film thickness. These may be higher than the technical possible minimum values stated.

Uneven surfaces may demand more material to reach the specified thickness.

Storage: dry, freeze-free  
Powder component: approx. 12 months  
Liquid component: approx 24 months in original unopened



in the moment of processing. Concave moulding, ledging corner: Form between masonry and foundation a concave moulding of 4cm length with pre-blended mortar **Asocret-/RN** or cement based mortar and **Asoplast-MZ** additive.

**Aquafin-2K/M** can be applied by brush, trowel or appropriate spray equipment.

At least two counts of **Aquafin-2K/M** are necessary parting all cases the applied thickness of the waterproofing must correspond with the required minimum thickness for the expected wet duty conditions. Only apply the second layer when the first coat will not be damaged by further applications (at +20°C after 4 hours at the earliest). Due to the possibility of crack formations avoid applied thicknesses greater than 2kg/m<sup>2</sup> (= 1mm dry film thickness) in one application to prevent the formation of cracks.

Existing cracks can be sealed with **Aquafin-2K/M** by embedding the **Aso-Joint-Tape-2000** into the first layer. For moving cracks and construction joints use **Aso-Joint-Tape-2000-S**.

For protection of the **Aquafin-2K/M** waterproofing film the **Aso-System fleece-02** may be embedded into the last layer.

#### Important advice:

- Do not subject the waterproofing compound to water during curing.
- Negative water pressure can lead to delamination during frost conditions.
- Do not apply **Aquafin-2K/M** with vapour impermeable or solvent containing products.
- In areas with high humidity and inadequate ventilation (i.e. in water tanks) allow for extended drying times.
- Avoid direct sunlight during application.

- Protect areas not to be treated from **Aquafin-2K/M**
- Eliminate direct contact with metals such as copper, zinc and aluminum with pore-tight, priming agent. 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 can no longer be brushed through (within approx. 3 to 6 hrs) then brush on the second coat of **Asodur-GBM** and broadcast with quartz sand (grain size: 0.2 to 0.7mm). Consumption approx. 800 to 1,000g/m<sup>2</sup> of **Asodur-GBM**. For sealing of PVC and stainless steel flanging, abrade the flanges and degrease with isopropanol or acetone. Apply **Aquafin-2K/M** and bed in the Aso-Joint-sleeve or alternatively as ADF-pipe seal and fix without voids and folds.
- The powder component of **Aquafin-2K/M** is classified as 'irritant' in accordance with hazardous goods (GefStoffV).
- Please observe a valid European Materials Safety Data Sheet (MSDS).
- Low chromate level according to TRGS 613 (Technical regulation for Hazardous Materials, European standard).

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