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SCHOMBURG Building Product Systems

Technical Data Sheet

AQUAFIN®-2K/M

Art.-No. 204248

Flexible two component waterproofing coating

Properties:

- Seamless and jointless flexible crack bridge waterproofing.
- Suitable for all load-bearing and similar surfaces.
- Hydraulic setting.
- Rapid rain-proof.
- Environment friendly.
- Easy and economical application.
- Simply applied by spray, roller, trowel or stiff brush.
- Bonds on wet surfaces without priming.
- Permeability to diffusion, age-resistant, frost-resistant.
- Waterproof - resists up to seven bar.
- Resistant against concrete aggressive water acc. to Standard DIN 4030.
- For fixing tiles in water retaining structures.
- Official test results available.
- Potable water approval according to DVGW W347

Scopes of use:

General waterproofing:
Exterior waterproofing of old and new buildings against ground moisture, humidity, pressure water. Horizontal waterproofing below masonry. Interior waterproofing against humidity from outside. For waterproofing of underground car parks, precast garages, container, process water tanks, liquid manure container, ducts, 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 underneath tiles:

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

Technical Data:

	Powder Comp.	**UNIFLEX®- M**
Basis:	sand/cement	polymer disp.
Mixing ratio:	5 weight parts	2 weight part
Delivery:	25 kg-bag	10 kg-pail
	5 kg-bag	2 kg-pail
Colour:	grey	white

Combination Product

Mixing time:	2 - 3 min. (drilling machine 300 r/min)
Processing time*:	60 min.
Processing temperature:	+ 5°C to + 35°C
Min. tensile elongation:	42%
Vapour diffusion resistance number:	approx. 1,000 µ
Cleaning:	in wet condition with water, cured material is very difficult to remove

Consumption / layer thickness:
Waterproofing against

a) earth moisture:	3.5 kg/m²
b) temporary ground-water and backwater:	3.5 kg/m²
c) ground- and backwater:	4.5 kg/m²

The thickness of the dry layer has to amount to at least a value of 2.0 mm for moisture and non-pressure water and 2.5 mm for pressure water. Uneven surfaces may demand more material to reach the specified thickness.
Storage: in dry condition 12 months
*) at an ambient temperature of 20°C and at 60% relative humidity

Surface:

The surface has to be clean, capacity bearing 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

AQUAFIN®-2K/M

grouted with cement mortar or ASOCRET-BS2.
Highly absorbent surfaces like light weight concrete or gypsum boards may be primed with ASO-UNIGRUND (Primer) to reach an improved adhesion.

Instructions for Use:
Approx. 2/3 of the liquid component UNIFLEX-M is poured into a clean vessel and AQUAFIN-2K-M powder is added while stirring until a knot free mass is achieved. After that the remaining UNIFLEX-M is added and stirred until a uniform consistency is achieved.

The surface has to be wetted in the moment of processing. Concave moulding, ledging corner: Between masonry and foundation a concave moulding of 4 cm length has to be applied with premixed ASOCRET-RN or cement mortar and ASOPLAST-MZ additive.

AQUAFIN-2K-M can be applied by brush, trowel or appropriate spray equipment.
At least two layers of AQUAFIN-2K-M are necessary. Every part of the waterproofing must have the minimum layer thickness for the expected moisture quantity.

The application of the second layer follows, when the first layer cannot be damaged by the following processing (at 20°C after 4 hours at the earliest). Because of the possibility of crack formations layer thickness' of more than 2 kg/m² (= 1 mm layer thickness in dry condition) has to be avoided to prevent the formation of cracks.

Existing cracks can be treated 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.

Annotation:
- Whilst the coating is hardening, it must not be influenced by water.
- Negative water can lead to ruptures under frost conditions.
- Vapour impermeable or solvent containing products must not applied on AQUAFIN-2K/M.
- In areas of high humidity and unsufficient ventilation (i.e. in water tanks) an extended curing time has to be taken into account.
- Avoid direct sunlight.
- Pre-dampen the surface prior to apllication of AQUAFIN®-2K/M.
- Areas that will not be coated by AQUAFIN-2K/M have to be protected.
- Direct contact with Metals such as Copper, Zinc and Aluminium can be protected by application of a sealed pore, priming agent. A sealed pore, primer can be created together with ASODUR-GBM within two working periods. During the first working period the primer can be brushed into the already cleaned surface. As soon as the surface has reacted ie: hardened, so that no further spreading is possible (within approx. 3 to 6 hrs) then the next layer of ASODUR-GBM can be brushed in and covered with quartz sand (grain size: 0.2 to 0.7 mm). Consumption approx. 800 to 1000 g/mÇ of ASODUR-GBM. For sealing of PVC and stainless steel Flanging. Flanges are to be sanded and degreased with isopropanol or acetone. AUQUAFIN-2K/M is then to be applied, the ASO-Joint-sleeve or alternatively ADF-pipe seal are to be bedded and fixed, without creasing or voiding and seamless on to the surface sealing.
- The powder component of AQUAFIN-2K/M is irritating according to Hazmat regulations (GefStoffV).
- See 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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