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Technical Data Sheet

AQUAFIN®-WM12

Art. no. 2 07230

PVC-based fresh concrete waterproofing membrane

- Combined waterproofing and vapour barrier
- High bonding
- Prevents water ingress behind
- Frost-resistant and ageing-resistant
- · Crack bridging
- Plasticiser-free
- Suitable for welding and bonding

Areas of use:

For the secure waterproofing of horizontal and/or vertical building components in direct contact with the ground, in above-ground and below-ground construction and in civil engineering, e.g. basement walls, foundations, floor slabs in combination with fresh concrete.

Technical data:

PVC membrane and special Basis:

fleece

Colour. Transparent/white Width: approx. 1.0 m

Length: 20 m

Thickness (membrane): approx. 1.2 mm approx. 1.8 kg/m² Surface weight -5 °C to +50 °C Application temp.:

Watertightness in accordance

with EN 1928,

procedure B 60 kPa/24h): Watertight

Water vapour resistance

factor (EN 1931): approx. 29 m

Tensile strength (MD/CMD),

in accordance with

EN 12311-2: 1056/1056 N/50 mm Tear resistance (MD/CMD),

in accordance with

EN 12310-1: 600/600 N

Elongation at break

(MD/CMD), in accordance

with EN 12311-2: 130/80 %

Shear resistance of the joint seams, in accordance with

FN 12317-2· Failure outside the joint seam

Impact resistance in accordance with:

EN 12691 procedure A: 700 mm

Reaction to fire, in accordance

with EN 13501-1: Class E

Storage: Cool, dry and protected from

> sunlight, min. 18 months in the original unopened container

Substrate:

The substrate must have adequate load-bearing capability and must be largely flat and pressure-resistant in order to counterbalance the loads that arise during the application and concreting works. Larger surface irregularities or steps must be levelled out beforehand by means of suitable mortar systems or suitable fillers, e.g. sand.

In the case of applications underneath floor slabs on compacted, pressure-resistant, capillary-breaking layers, there must be no sharp-edged or pointed components on the surface.

Formwork may not deform during the concreting works. In the case of vertical applications, the top finishing rail must be secured using suitable measures.

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Application:

The substrate must be firm and load-bearing. Overlaps should be established with min. 5 cm, and bonded through hot air-welding or adhered with AQUAFIN-CA.

Application as waterproofing under floor slabs:

The fresh concrete composite film must be applied with the transparent side to the substrate, before the concreting. Apply AQUAFIN-WM12 to the appropriately compacted, pressure-resistant, capillary-breaking layer or blinding layer (concrete or thermal insulation) in overlapping linear sheets. The overlapping width is 5 cm. The joints are bonded by means of hot air welding or adhered with AQUAFIN-CA. Avoid damage during the subsequent work steps, e.g. laying reinforcement. Spacers used shall have a large surface area at the support points. The concreting of the floor slab must be professionally applied and in accordance with the applicable standards and regulations. It is particularly important to ensure that the concreting is implemented free of voids or that bonding is implemented covering the whole area of the fleece layer. In doing so, direct contact between the AQUAFIN-WM12 and the compacting machine should be avoided.

Application as waterproofing in formwork constructions:

The fresh concrete composite film must be applied with the transparent side to the formwork, before the concreting. AQUAFIN-WM12 is fitted to the top side of the formwork construction in linear sheets, overlapping and fastened by means of nail strips. The overlapping width is 5 cm. The joints are bonded by means of hot air welding or adhered with AQUAFIN-CA. Avoid damage during the subsequent work steps, e.g. laying reinforcement or spacing struts. The concreting must be professionally applied in accordance with the applicable standards and regulations. It is particularly important to ensure that the concreting is implemented free of voids (gravel pockets) or that bonding is implemented covering the whole area of the fleece

layer. In doing so, direct contact between the AQUAFIN-WM12 and the compacting machine should be avoided.

Application as waterproofing in accordance with DIN 18533:

The fresh concrete composite film must be applied with the fleece side to the formwork or substrate, before the concreting. Overlaps must be welded; adhesive bonding is not permissible!

Hot air welding:

Device parameters:

- 220V hot air blower with stepless temperature adjustment up to +600 °C and air flow regulator
- Heating power > 1400 Watt
- Width slotted nozzle 40 mm (perforated on the underside) The welding of the AQUAFIN-WM12 is carried out with handheld welding devices (e.g. Leister Triac) with a temperature of +450 °C to +650 °C (approx. level 6.5). The sealing sheets are laid overlapping and tacked at a max. pitch of 50 cm, parallel with one another. Then the handheld welding device is guided slowly over the joint at an angle of approx. 30°. In doing so, the sheets are pressed together with a moderate force of > 5-6 kp using a silicone roller, parallel with the sheet edge, until a weld seam is created at the joint edges. Welding is implemented over a width of approx. 4 cm. With professionally prepared welding, a weld bead running along the seam can be considered an indication of a perfect joint. The joint seams are immediately leak-proof and are fully cured after 24 hours.

Carry out trial welding before the hot air welding work. In the case of applications on thermal insulation, suitable underlays, which will be slowly pulled along with the sheets during welding, should be used. The welding zones are to be cleaned of any adhesion inhibiting substances. In doing so, it is not permitted to use solvents or splice wash.

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Adhered with AQUAFIN-CA:

Generously apply AQUAFIN-CA to the overlap area of the substrate and press the next sheet into the fresh adhesive. The concreting process can take place no sooner than 8 hours after adhesion.

Notes:

- The fresh concrete composite system should be stored dry as a matter of principle.
- Do not store sharp objects or pallets on the fresh concrete composite film.
- The current applicable regulations and datasheets are to be observed!

Please observe valid EU safety data sheets!

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