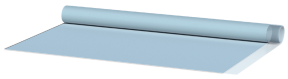
AQUAFIN®-WM12

Green concrete bonded waterproofing sheet, PVC



Material number	Length	Width, article	Material strength	Contents	Packaging	Colour
207230004	20 m	1.5 m	approx. 1.2 mm	1	Roll	Transparent
207230005	25 m	2.16 m	approx. 1.2 mm	1	Roll	pigmented

Product features

- Waterproofing membrane in accordance with DIN SPEC 20000-202
- Waterproofing in accordance with DIN 18533
- CE certified in accordance with DIN EN 13967
- Radon tight

Advantages

- Smooth consistency and flexible
- Prevents water ingress behind
- Suitable for welding and bonding
- Transparent
- High adhesive bonding with fresh concrete in very soft to very flowable consistency

Fields of application / waterproofing

- For waterproofing building components in direct ground
- As pressure waterproof area waterproofing of (waterproof) concrete constructions
- As an additional measure in the case of high quality use of waterproof constructions
- As protection of the waterproof concrete construction against chemical exposure
- Radon barrier

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Technical Data

Material properties

Product components	Roll goods
Base material	PVC-P
Surface weight	approx. 1.5 kg/m² ± 5%
Bitumen compatibility in accordance with DIN EN 1548/1928	Sealed
Resistance against artificial ageing in accordance with EN 1296/1928	Sealed
Resistance against static loads DIN EN 12730 (procedure B)	20 kg/24 h
Tear resistance in accordance with DIN EN 12310-1	> 500 N
Resistance against shock loads (procedure A)	approx. 600 mm
Resistance to ageing	Passed
Shear resistance of the joint seams in accordance with EN 12317-2	> 300 N / 50 mm
Sd value in accordance with DIN EN 1931	> 37 m
Vapour diffusion behaviour	Vapour diffusion-inhibiting
Watertightness in accordance with DIN EN 1928 (procedure B)	≥ 5 bar
Resistance against shock loads in accordance with DIN EN 12691 (procedure A)	approx. 600 mm
Tensile strength in accordance with DIN EN 12311-2	> 980 N / 50 mm
Classification of the reaction to fire in accordance with DIN EN 13501-1	E

Application

Application temperature	from -5 °C to 50 °C

Application technology

Aids/tools

- Cartridge gun
- Welding unit with wide nozzle
- Pressure roller
- Tacker

Suitable substrate

- Concrete
- Concrete formwork
- Thermal insulation

Substrate preparation

Requirement for substrate

1. Pressure resistant
2. Even
3. Free from pointed or sharp-edged components
4. Load-bearing

Usage

Bonding of fresh concrete systems

1. Remove adhesion inhibiting substances from the bonding zones. In doing so, it is not permitted to use solvents or splice wash.
2. Apply AQUAFIN®-CA fully to the substrate in the AQUAFIN®-WM12 overlap area.
3. The bonding takes place over a width of approx. 4 cm.
4. Press the next film into the fresh adhesive.
5. The concreting process can take place no sooner than 8 hours after adhesion.

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Waterproofing in formwork constructions

1. The fresh concrete composite film must be applied with the transparent side to the formwork, before the concreting.
2. AQUAFIN®-WM12 is fitted to the top side of the formwork construction in linear sheets, overlapping and fixed by means of nail strips.
3. The overlapping width is 5 cm.
4. The joints are bonded by means of hot air welding or adhered with AQUAFIN®-CA.
5. Openings for tie points are made in the AQUAFIN®-WM12 by cutting.

Waterproofing under floor slabs

1. Apply AQUAFIN®-WM12 to the appropriately compacted, pressure-resistant, capillary-breaking layer or granular subbase (concrete or thermal insulation) in overlapping linear sheets.
2. The overlapping width is 5 cm.
3. The joints are bonded by means of hot air welding or adhered with AQUAFIN®-CA.
4. Avoid damage during the subsequent work steps, e.g. laying reinforcement.
5. Spacers used must have a large surface area at the support points.
6. The concreting of the floor slab must be professionally applied and in accordance with the applicable standards and regulations.
7. 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.

Welding of fresh concrete systems

1. 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.
2. Carry out trial welding before the hot air welding work.
3. Welding at a temperature of +350 °C to +450 °C.
4. The sealing sheets are laid overlapping and tacked at a max. pitch of 50 cm, parallel with one another.
5. Welding is implemented over a width of approx. 4 cm.
6. 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.
7. In the case of applications on thermal insulation, suitable underlays, which will be slowly pulled along with the sheets during welding, should be used.
8. The joint seams are immediately leak-proof and are fully cured after 24 hours.

Notes on concreting

1. The concreting must be professionally applied in accordance with the applicable standards and regulations.
2. 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.
3. In doing so, direct contact between the AQUAFIN®-WM12 and the compacting machine should be avoided.

Waterproofing under floor slabs

1. At the floor / wall transition, fold up AQUAFIN®-WM12 to the formwork and fasten.
2. Inside and outside corners should ideally be made using pre-formed pieces. Integrate these into the area waterproofing by gluing/welding.
3. T-joint through overlapped underlay of system accessory PVC tape. The overlap area is >= 5cm. AQUAFIN®-WM12 is welded onto the PVC tape or glued on with AQUAFIN®-CA.
4. After removing the formwork, connect the base plate seal to the wall seal. To do this, weld on the system accessory PVC tape or glue it on with AQUAFIN®-CA.
5. After removing the formwork, close the tie points (e.g. with AQUAFIN®-QM) flush with the surface. Then tie it into the area waterproofing with PVC tape, by welding or gluing on with AQUAFIN®-CA. The overlap area is 5 cm.
6. If the rising walls are to be sealed with a liquid jointing compound, the fresh concrete waterproofing membranes is sealed with the KSK sealing tape. The transition from the sealing systems to the KSK sealing tape can then be sealed with the liquid waterproofing material.

Storage conditions

Storage

Cool, dry, protected from sunlight. Min. 18 months in the original container.

Disposal

Product leftovers can be disposed of in household waste.

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Notes

- Do not store sharp objects or pallets on the fresh concrete composite film.
- Avoid damage during the subsequent work steps, e.g. laying reinforcement or spacing struts.

Annotations

Conformity / Declaration / Verification

SCHOMBURG GmbH & Co. KG Detmold

P-1202/685/20

MPA Braunschweig

CE

0799-CPR-294

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DIN EN 13967
AQUAFIN-WM12
Waterproofing membranes for waterproofing with moisture and groundwater barrier – Type A and type T, PVC film with PP-lining

Reaction to fire	Class E
Watertightness	60 kPa/ 24h
Tear resistance (nail shank)	≥ 500 N
Shear resistance of the joint seams	≥ 300 N/50mm
Resistance against shock loads	≥ 600 mm
Tensile strength	≥ 980 N/50mm
Resistance to static loading	20 kg
Durability against	
- Ageing/Degradation	passed
- Chemicals	passed
Hazardous substances	EU compliant