

weber.tec 913

Cold-applied self-bonding membrane

Crack-bridging and self-bonding bitumen waterproofing membrane for earth-contacting building parts and balconies

Fields of application

For the waterproofing of earth-contacting floor slabs and walls (DIN 18533).
Also for the waterproofing of balconies (DIN 18531 and 181534).
For use indoors and outdoors.

Description

weber.tec 913 is a cold self-adhesive bitumen waterproofing membrane. It corresponds to the standards EN 14967 and EN 13969 (also DIN 18533, part 2, in connection with DIN V 20000-202). With official test report relating to tightness to radon gas.

Composition

HDPE (high-density polyethylene) foil, polymer bitumen adhesive

Main features

- cold-applied and self-adhesive
- immediately water- and rain-proof
- high water vapour tightness
- barrier against diffusion of radon gas
- applicable at temperatures up to -5°C
- width: 1.0 m and 0.30 m; length: 15 m
- with square grid and self-bonding strip on one side
- for use indoors and outdoors

Technical values

Application temperature:	≥ 5°C - ≤ 30°C; max. 80 % relative humidity rate
Elongation at break:	approx. 250 %
Water vapour diffusion equivalent air layer thickness (S _D):	approx. 230 m
Watertightness (EN 14967):	passed test
Cold bending behavior(EN 14967):	≤ -30°C
Resistance to ageing (EN 14967):	passed test
Resistance to impact:	tight; method A ≤ 200 mm
Resistance to chemicals (EN 14697):	passed test
Class of reaction to fire:	E
Weight:	approx. 1.5 kg/m ²
Width of vulcanization strip:	25 mm
Thickness:	1.5 mm

Quality control

weber.tec 913 is subject to a regular quality control.

General notes

- Do not use in case of rain, direct sunlight or great heat.
 - At low temperatures, it is recommended that the reverse side of the membrane be heated slightly to achieve a good bond.
 - The membrane should be applied at least 15 cm above the water load level.
 - It must be protected against damage due to earth backfilling in the excavation pit, for ex. with the drainage mat weber.sys 983 on the external side of basement walls.
 - Protective boards are fixed with a **Weber** bitumen waterproofing thick-layer coating (PMBC – polymer-modified thick bitumen coatings), e.g weber.tec Superflex 10.
 - Protective screeds are to be carried out on separating membrane.
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Special notes

- Observe the **Weber** application tip "Basement waterproofing - New buildings - Basement waterproofing with self-bonding and cold-applied bitumen membranes".
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Substrate preparation

- The substrate must be clean, dimensionally stable, solid, dry and frost-free.
- Remove loose parts, lime or oil paints and all water-repellent and adhesion-impairing substances and particles.
- Suitable substrates: concrete, masonries (brickworks, lightweight blocks, concrete blocks, lime sandstones) and non-moisture sensitive renders.
- Break off edges and protruding parts.
- Level out break-outs, open butt joints and rough substrates (in particular concrete with aggregates of similar same size, i.e. with air pockets and without concrete in-between) by applying a levelling coat of the watertight patching mortar weber.tec 933 up to 10 mm thickness, using a flat trowel.
- Round the external angles between the forepart of concrete slab and the basement walls in groove form with weber.tec 933 in a radius of max. 5 cm, using the pre-formed rounded trowel "big size" (250 x 150 mm) weber.sys Hohlkehlenschlitten.
- Waterproof damp substrates with cement-based slurries, for ex. weber.tec 930 to prevent moisture penetration from the reverse side of substrate.
- Waterproof the socket area of facades up to approx. 20 cm below ground level with the 2-comp. reactive waterproofing slurry weber.tec Superflex D 2.
- At temperatures above 5°C use the solvent-based bitumen primer weber.tec 913 VE undiluted.
- At temperatures between -5°C and 5°C use the bitumen primer weber.tec 902.
- Apply the primer in a film-forming manner. Prime highly absorbent substrates twice. The primer must be dry, still sticky and free of condensation before applying the self-bonding membrane.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Detail points

- Angles at the floor/wall connections (between concrete slab and basement walls): cut a strip of at least 30 cm width and lay it in the groove area. Ensure an overlap of 8 - 10 cm with the vertical sheet.
- Outer and inner corners (wall/wall) and inner connections (floor/wall): cut a piece of the membrane in the right size and glue it. Ensure an overlap of 8 - 10 cm with the vertical or horizontal sheet.

- PVC pipes: grind their surface and remove grinding dust. Cut a piece of the membrane in form of a collar in the right size and glue it onto the pipe and the wall.
- Movement joints: use the joint sealing tapes weber.tec Superflex B 240, B 240 E or B 400, depending on the joint width; bond the tape with weber.tec Superflex D 2 and cover it with the same material on both sides.

General application on floors and walls

- Roll out the membrane, cut it to required length and roll up again.
- Afterwards roll it out to a length of approx. 50 cm and take away the masking paper.
- Place the cut sheet into the right position onto the substrate and press the exposed adhesive side (without masking paper) onto the substrate. Afterwards remove the masking paper from the overlapping area of the previous (first sheet), which has been bonded.
- Glue the following sheet with an overlap of at least 8 cm.
- A vigorous rolling over the whole surface with a hand roller or a brush avoids air inclusions and wrinkles, and provides a full-surface bond with the substrate. Also roll the overlapping areas firmly with a hand roller.
- The membrane is attached to the walls at the ends, using standard wall connection profiles.
- Close the joints between the substrate and the profiles with the silicone joint sealant weber.fug 881.
- On basement walls the drainage mat weber.sys 983 can be used. Fix it with the metal profile weber.sys 983 A at its upper side and above weber.tec 913.

Product details

Storage:

The material can be stored at least 12 months if stored in a dry place, protected from sunlight and frost, standing upright in its original sealed container (cardboard box).

Consumption / yield

approx. 1.1 m/m

Technical Data Sheet



Packagings

Type	Dimension	Sales unit	Number / euro- pallet
Roll	width: 0.30 m / length: 15 m	15 meters	45 pieces
Roll	width: 1 m / length: 15 m	15 m ²	15 pieces

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