

Bitumen 1K

1-comp. bitumen waterproofing thick coating

Polystyrene-filled, flexible 1-comp. bitumen waterproofing compound

Product profile

- for external waterproofing in contact with the ground
- for walls and floors

Product advantages

- flexible
- waterproof

Product description

Bitumen 1k is a 1-component thick bitumen waterproofing compound. With CE marking according to DIN EN 15814 and PMBC according to 18533.

Fields of application

For waterproofing of earth-contacting basement walls, concrete floor slabs and foundations. Also suitable for spot-bonding of extruded polystyrene rigid-foam insulation boards.

Product features

- resistant to frost and thawing salts when fully dry
- resistant to water attacking concrete up to the "highly corrosive" level in accordance with DIN 4030
- sprayable with peristaltic pump technology

Consumption / yield

W1-E: Soil moisture and non-pressing water	min. 4 l/m ²	dry layer thickness ≥ 3 mm
W2.1-E: Pressurised water ≤ 3 m immersion depth	min. 5.5 l/m ²	dry layer thickness ≥ 4 mm
W4-E: Splash water at the wall plinth	min. 4 l/m ²	dry layer thickness ≥ 3 mm
As spot glue for insulation boards in case of W1-E	approx. 2 litres/m ²	

Technical values

Application temperature	5 - 30 °C
Density	0.7 kg/dm ³
Dry residue	approx. 80 %
Application tool	notched trowel, smoothing trowel
Resistance to rain	< 8 hours
Drying time	at least 3-4 days
Composition	bitumen emulsion, polymers, polystyrene

Storage

Shelf life	min. 12 months
Storage conditions	Dry, cool, frost-free, protected from sunlight, indoors, in the original sealed container

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Application

Surface preparation

- The substrate must be frost-free, solid, clean, sufficiently dry and free of tar pitch, oil, grease, honeycombs and open cracks, fins and any other contaminants.
- All water-repellent or adhesion-reducing particles must be removed. Edges should be chamfered and internal corners rounded.
- Any joints or recesses > 5 mm should be filled with **weber.tec 933**.
- Fillets at the base wall connection should be rounded using **weber.tec 933** with a radius of 5 cm.
- Before applying the thick coating, all critical areas at the floor/wall transition must be protected against moisture using the watertight patching mortar **weber.tec 933**.

Application

Primer:

- **weber.tec 901** should be diluted at a ratio of 1:10 with water.
- Cellular concrete and sandy substrates must be primed with **weber.prim 900**.

Scratch layer:

- To close pores and cavities as well as open butt joints up to 5 mm wide, a full-surface scratch coat must be applied with the thick-layer. The scratch layer must be left to dry sufficiently so that it is not damaged when the first layer of subsequent waterproofing is applied.

Waterproofing of earth-contacting vertical surfaces:

- The application should be carried out in at least 2 layers. The second waterproofing layer should be applied as soon as the first coat is firm enough to avoid damage.
 - In the case of ground damp and non-pressure water (W1-E), both layers can be applied "wet-in-wet".
 - In the case of pressing water (W2.1-E), a woven fibreglass mesh **weber.sys 981** must be embedded in the fresh first coat.
- In the case of waterproofing a concrete floor slab against ground damp or non-pressing water (W1-E), **weber.sys 981** is applied directly to the slab. Once the waterproofing layer has fully dried, a two-layer polyethylene foil should be laid as a protective and slip layer, then the floating screed on the PE foil. For floor waterproofing against pressing water (W2.1-E), the waterproofing system incorporates **weber.sys 981** into the fresh first layer.

General notes

In pressurising water conditions, steel-reinforced concrete must comply with DIN EN 206 and DIN 1045.

In the case of strong sunlight, appropriate precautions must be taken, e.g. providing shade.

The bonding of protective and insulation boards, as well as the backfilling of the excavation, can only be carried out once the coating has fully set and dried. In pressurised water conditions, the protective and insulation boards must be bonded using two-component bitumen waterproofing thick coating, such as **Bitumen 2K**, **weber.tec Superflex 2K** or **weber.tec Superflex 10**.

For waterproofing protection, we recommend our fleece-backed drainage/protection mat **weber.sys 983**.

DIN 18533 must always be observed during application. Furthermore, the guideline for the planning and execution of waterproofing with polymer-modified bitumen thick coatings (PMBC) must be observed.

All characteristics mentioned in this data sheet refer to a temperature of 20°C, without draughts, and a relative air humidity of 70%.

Clean while still fresh with water; once dry, use **weber.sys 992**.

For radon-proof coatings, the dry layer thickness must be at least 4.5 mm.

The product is subject to regular quality control.

Special notes

The application tip "General guidelines for waterproofing works with bitumen thick-layer coatings" must be observed.

Do not mix with other substances during mixing and application.

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The consumption for the filling and scratch coat, as well as the additional material requirement due to application-related variations of approx. 1-2 litres/m², must be calculated separately.

In the case of rain threatening, high humidity and cool temperatures, we recommend applying **Bitumen 2-comp.**, **weber.tec Superflex 2-comp.** or **Superflex 10**.

Packaging units

Type	Unit	PU
hobbock	30 litre	18 hobbock / palett