Technical Data Sheet

Bitumen 2K

2-comp. bitumen waterproofing thick coating

Polystyrene-filled, flexible, 2-comp. bitumen waterproofing compound

Product profile

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

Product advantages

— flexible
— quickly rainproof
— waterproof

Product description

Bitumen 2-comp. is a 2-component thick bitumen compound. With CE marking according to DIN EN 15814 and PMBC according to DIN 18533.

Fields of application

For waterproofing of earth-contacting basement walls, concrete floor slabs and foundations. Furthermore, the waterproofing can be used under screeds for the intermediate waterproofing of non-inhabited balconies or terraces. The product can also be used for bonding extruded polystyrene rigid-foam insulation boards.

Product features

— solvent-free
— suitable for all mineral substrates, no cement render required on masonries
— resistant to water attacking concrete up to the ”highly corrosive” level in accordance with DIN 4030
— resistant to frost and thawing salts when fully dry
— sprayable with peristaltic pump technology
— radon-tight

Consumption / yield

W1-E: Soil moisture and non-pressing water	min. 4 l/m2	dry layer thickness ≥ 3 mm
W2.1-E: Pressurised water ≤ 3 m immersion depth	min. 5.5 l/m²	dry layer thickness ≥ 4 mm
W3-E: Non-pressing water (earth-covered ceilings)	min. 5.5 l/m²	dry layer thickness ≥ 4 mm
W4-E: Splash water at the wall plinth	min. 4 l/m2	dry layer thickness ≥ 3 mm
As spot glue for insulation boards in case of W1-E	approx. 2 l/m²	
As a full-surface glue for insulation boards in the case of W2.1-E	approx. 4 l/m²	

Technical values

Application temperature	5 - 30 °C
Dry residue	approx. 80 %
Application tool	notched trowel, smoothing trowel
Density	approx. 0.75 kg/dm³ of the finished mixture
Application time	approx. 1 - 2 hours
Rain resistance	< 8 hours
Drying time	at least 3 days
Mixing ratio in GT	4 : 1 (A : B)

Technical Data Sheet

Bitumen 2K

2-comp. bitumen waterproofing thick coating

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

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.
— Fillets (horizontal and vertical) must be rounded with **weber.tec 933**.
— Any joints or recesses > 5 mm should be filled with **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**.
Mixing:
— The base and powder components must be mixed in the correct proportions using a high-performance mixer with a mixing paddle No. 4 at a minimum speed of 600 rpm to form a homogeneous, lump-free mixture.
The powder should be added gradually and evenly while mixing. The mixture must be homogeneous throughout, including the edge areas, and the mixing time is at least 3 minutes.
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.

Only after complete setting and the full drying time may the protective and insulation boards be bonded and the excavation pit filled.

To protect the waterproofing system, 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) and the WTA leaflet "Retrospective waterproofing of ground-contacting
structures" must be observed.

Bitumen 2K

2-comp. bitumen waterproofing thick coating

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**.

The product is subject to regular quality control.

Special notes

Do not mix with other substances during mixing and application.

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

The consumption for the filling and scratch coat, as well as the additional material requirement due to application-related variations of approx. 1–1.5 litres/m², must be calculated separately.

Packaging units

Type	Unit	PU
hobbock	30 litre	18 hobbock / palett

Registered office: Willstätterstr. 60 | 40549 Düsseldorf
Contact: export.de.weber@saint-gobain.com | www.de.weber
Commercial register: AG Düsseldorf HRB 65250 | VAT no.: DE 122392875