

weber.Superflex D 2

Flexible waterproofing slurry

Highly flexible, reactive-setting and rapid-setting waterproofing slurry

Uses

- for external and internal waterproofing of basement walls and foundations
- for waterproofing under tiles
- for retrospective internal waterproofing

Advantages

- reactive -setting
- can be covered quickly
- low consumption
- drying process independent from weather conditions within 24 hours
- application with brush, roller, flat trowel or spray machine
- quickly open to pedestrian traffic and to laying of tiles

Fields of application

weber.tec Superflex D 2 is used as flexible external waterproofing for masonry and concrete basement walls (external and internal faces) below ground level, concrete floor slabs, sub-base courses. For retrospective interior waterproofing on masonry and concrete basement walls below ground level. For waterproofing tanks with water columns to 10 meters (internal waterproofing). As preliminary waterproofing and bonding slurry under PMBC (polymer-modified bitumen coatings), as horizontal damp-proof courses under ascending walls and as a bonding layer on existing bitumen coatings, as solid-bonded waterproofing under ceramic coverings (e.g. swimming pools/sanitary areas/wet-duty areas).

Description

weber.tec Superflex D 2 is a highly-flexible, quick-and reactive-setting 2-component waterproofing slurry.

Composition

Cement, selected silica sands, highly reactive polymers, reactive fillers, additives

Main Features

fast-setting, even in cold temperatures
waiting time between each application on walls: 90 minutes
open to pedestrian traffic after and covering with tiles: after 4 hours
weather-independent drying within 24 hours
dry residue > 95%
flexible and crack-bridging > 1 mm
suitable for all mineral substrates; a render coat on masonry is not required
weather-independent full drying due to reactive setting, even under air exclusion
can be painted or plastered over, frost-/thaw salt resistant
after 3 days permanently resistant in underwater areas
sprayable with peristaltic pump plus screw pumps, like Wagner PC 1030 with air support

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Technical Data

Application	+3°C to +30°C air and substrate temperature
Density	approx. 1.05 kg/dm ³ of ready mixed material
Consistency	slurry grade, brushable, trowel grade, sprayable
Pot life	approx. 45 minutes
Clean-up	when fresh with water

Quality Control

weber.tec Superflex D 2 is subject to a regular internal quality control.

General Notices

For banking seepage water steel-reinforced concrete must satisfy the national standards (EN 206 and DIN 1045). In case of strong sunshine, carry out waterproofing works in shadow. Wait till thorough drying before gluing insulation boards or protection boards on the waterproofing layer and before backfilling the building excavation.

As protection of the waterproofing system use the fleece-backed drainage and protection foil **weber.sys 983**. All characteristics mentioned in this data sheet are given for a temperature of + 23 °C, without draft and a relative humidity rate of 50%.

For application comply with national standards (DIN 18533). Comply with the "Guideline for planning and execution of waterproofing of ground-contacting structural components with flexible waterproofing slurries", and with the instructions in the WTA leaflet "Retrospective Waterproofing of Ground-Contacting Structures".

After full drying the waterproofing layer can be painted over with the silicone resin paint **weber.ton 411** or the dispersion-based paint **weber.ton 412**.

If a render is planned on the façade socket part, apply the stipple coat **weber.san 951 S** on the whole surface of the dry waterproofing **weber.tec Superflex D 2**.

As alternative use the bonding **layer weber.dur 101** which is combed horizontally with an 8-mm notch trowel.

Structural joints in the construction must be covered with the sealing tape system **weber.tec 828** and incorporated so that they are congruent with the tile covering.

Higher temperatures and lower humidity accelerate, lower temperatures and higher humidity delay the setting time. When laying of ceramic tiles or natural stones, avoid damaging of the waterproofing layer.

In case of pressure water steel reinforced must not reveal any cracks wider than 1 mm.

When waterproofing water-impermeable concrete structures in the area of work joints and butt joints for pre-cast concrete elements, the guidelines governing such waterproofing works (if any) must be complied with. When waterproofing watertight concrete parts butt joints and joints, use the mesh reinforcement **weber.sys 981** or the foil **weber.sys 982** along the joints.

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Specific Notices

Do not mix with other building materials.

For drinking water tanks use the 1-comp. normal-setting waterproofing slurry **weber.tec 930**.

Do not use the material on frozen substrates, at freezing temperatures, or high temperatures (above + 30 °C substrate temperature).

If there is danger of reverse damp penetration the waterproof mortar **weber.tec 933** must be applied beforehand as protection against reverse moisture penetration on the inner fillet area of basement walls.

The fresh coat must be protected from direct sunlight, frost, as well as rain for at least 4 hours after its application.

Slight color changes cannot be avoided in direct sunlight.

Notice the application tip "General notes for the waterproofing with thick coatings".

The consumption for filling and scratching as well as additional consumption due to processing-related variation of approx. 0.5 - 1.5 kg/m² must be calculated separately.

The waterproofing is not suitable for direct use. Only use in combination with an appropriate protective layer (screed or tiles).

As a rule, waterproofing of building structures requires application of waterproofing slurry to the surface exposed to the water load (positive water pressure). The waterproofing should extend up to 30 cm above the expected limits of the surface to be waterproofed. Freeze damages are not allowed in case of internal waterproofing.

Preparation of Substrates

The substrate must be frost-free, solid, clean and sufficiently dry as well as free of tar pitch paint, cavities and gaping cracks, burrs and harmful contaminants.

Remove all water-repellent and adhesion-diminishing residues.

In case of basement waterproofing

Break off edges and round fillets.

Joints and recesses > 5 mm must be sealed with the waterproof mortar **weber.tec 933**.

Round fillets on the floor/wall connection with **weber.tec 933** in a radius of 5 cm with the preformed rounded trowel **weber.sys Hohlkehlschlitten groß**.

Highly-absorbent substrates must be pre-treated with **weber.prim 801**.

In case of waterproofing under tiles

If necessary, mineral substrates must be levelled with **weber.plan 818** or **weber.plan 819**.

Mineral substrates must be primed with **weber.prim 801**.

PVC connections must be roughened with sand paper and subsequently primed with the 2-comp. epoxy primer **weber.prim 807** and covered with silica sand **weber.sys Harzquarzmaterial** (0.1 - 0.5 mm) so that a solid contact layer is achieved.

Old ceramic tiles must be primed with **weber.prim 803**. Verify adequate bonding via a preliminary test. It may be necessary to roughen the substrate mechanically.

Degrease metal surfaces of aluminium, copper and zinc with the thinner **weber.sys 992** and cover them with the 2-comp.-resin waterproofing compound **weber.tec 827 S**. Broadcast silica sand **weber.sys Harzquarzmaterial** (0.7 - 1.2 mm) over the fresh epoxy resin layer up to saturation. After 24 hours remove excess silica sand and apply **weber.tec Superflex D 2**.

Degrease all other metals with the thinner **weber.sys 992** and directly apply **weber.tec Superflex D 2**.

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Working Instructions

Mixing

Mix the components A and B in a ratio of 1 : 1 part by weight. Mixing time: 2 - 3 minutes. Mixing tool: powerful electric drill with attached stirrer or **weber.sys Rührpaddel No. 3** until a homogenous, lump-free and slurry-like mortar is achieved.

Scratch layer

Apply a full-surface scratch coat with **weber.tec Superflex D 2**, unextended or extended with silica sand **weber.sys Hartquarzmaterial 0.1 – 0.3 mm** (mixing ratio 3:1 parts by weight) to close pores and honeycombs as well as open butt joint up to 5 mm.

The scratch coat should not be damaged by the following waterproofing application.

In case of substrates with pores and honeycombs (for ex. concrete, screeds, renders, plasters) apply first a thin scratch coat by smooth trowel in order to avoid blistering (formation of air bubbles). Mix 2 parts by weight of weber.tec Superflex D 2 (consumption of approx. 0.5 kg/m²) with 1 part by weight of silica sand weber.sys Hartquarzmaterial (0.1 – 0.5 mm).

The scratch layer must have dried sufficiently, before the 1st layer is applied.

Application

On horizontal and vertical surfaces apply **weber.tec Superflex D 2** in 2 – 3 layers with brush, flat trowel, notched trowel (3 mm) **weber.sys Schichtdickenkelle**, mason's swab, roller or spray machine, uniformly, full-surface and without leaving open pores (apply approx. 1.1 kg/m² per mm thickness).

The second resp. third application should take place as soon as there is no danger of damaging the previous one.

The minimal consumption is 1.25 kg/m² and per mm wet layer thickness. A total layer thickness of 2 mm must be obtained at every point of the waterproofing layer.

In case of waterproofing under ceramic tiles or natural stones, the specific areas, like movement, corner and connection joints, and also pipe ducts must be first waterproofed. Bond the parts of the elastic sealing tape system weber.tec 828 (tapes, inner and outer angles, lip-seals) with weber.tec Superflex D 2 onto the substrate. Mortar residues must be removed in fresh condition with a wet sponge. Also clean equipment with water immediately after use.

Protection

In case of waterproofing on external side of basement walls weber.tec Superflex D 2 must always be covered with a fleece-backed and protection foil weber.sys 983; in the façade socket part, it can be covered by a render.

In case of waterproofing of wet-duty rooms, shower rooms, swimming pools etc. it must always be covered with a hard protection, like screed, ceramic tiles or natural stones.

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Consumption/Yield

W1-E* ground moisture and non-pressure water	min. 2.5 kg/m ²	Dry layer thickness ≥ 2 mm
Pressure water (≤ 3m immersion depth)	min. 3.1 kg/m ²	Dry layer thickness ≥ 2.5 mm
W4-E*: splash water on the wall socle, capillary water in and under walls	min. 2.5 kg/m ²	Dry layer thickness ≥ 2 mm
As contact layer/bonding layer on old bitumen layers	approx. 0.7 kg/m ²	
Pressure water from inside W1-B up to W2-B* (tanks)	min. 3.1 kg/m ²	Dry layer thickness ≥ 2.5 mm
As waterproofing from inside for ground moisture and non-pressure water	min. 2.5 kg/m ²	Dry layer thickness ≥ 2 mm
As waterproofing from inside for pressure water	min. 3.5 kg/m ²	Dry layer thickness ≥ 3 mm
Solid-bonded waterproofing under tiles (AIV) W0-I up to W2-I*	min. 2.5 kg/m ²	Dry layer thickness ≥ 2 mm

*according to German Standard DIN 18533 "Waterproofing of elements in contact with soil"

Packaging

Packaging	Sales Unit	Number per wrapped euro-pallet
Bucket (comp. A and comp. B)	6 kg	60 pieces
Bucket comp. A	15 kg	24 pieces
Bag comp. B	15 kg	24 pieces
Bucket (comp. A and comp. B)	24 kg	18 pieces

Practical Information

Tools:

electric drill, stirrer **weber.sys Rührpaddel No. 3**, preformed round trowel **weber.sys Hohlkehlschlitten** (for connections), notched trowel (3 mm) **weber.sys Schichtdickenkelle**, flat trowel, brush, mason's swab, roller or spray machine

Color:

Grey

Drying time:

approx. 24 hours

Storage:

The product can be stored min. 12 months in its original unopened packaging, if kept cool and frost-free.

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Legal Notices

The correct and hence successful application of our products is not within our control. A guarantee can therefore only be accepted for the quality of our products within the framework of our sale and supply conditions but not for their successful use.

Observe the safety precautions for protection of health and prevention of accidents given in the safety data sheet and on the label of the packaging. This data sheet supersedes all earlier technical data on this product. Information supplied by our employees and/or distributors going beyond the scope of this data sheet must be confirmed in writing. We reserve the right to make changes representing technical progress.