

weber.tec Superflex Marine

2-comp. waterproofing compound and tile adhesive

Highly-flexible reactive waterproofing and adhesive for tiles and slabs

Fields of application

weber. tec Superflex Marine is a highly-flexible, fast-setting, reactive setting, 2-component system consisting of tile adhesive and waterproofing. After hardening it is waterproof, frost-resistant, sulphate-resistant, UV- and ageing-resistant.

The 2-component mortar is mainly used on steel pre-treated with shopprimer, galvanised steel and aluminium and is convenient for the protection and renovation of weber Marine screeds, smoothing mortars and levelling and compounds as well as old tile coverings.

It is suitable as solid-bonded waterproofing under ceramic tiles and slabs in bathrooms and wet-duty rooms (according to water loads W0-I up to W3-I defined in the standard DIN 18534), in balconies and terraces (DIN 18531-5) and in swimming pools (DIN 18535).

In addition, the subsequent coverings can be installed on the previously waterproofed surface with the same material. The specific notched trowel weber.sys Abdicht- und Verlegeglätter allows the application as waterproofing compound and as tile adhesive in one operation. This type of work is time- and cost-saving. As waterproofing material and as tile adhesive in one product, it hardens with low internal stress and minimal cracking. Due to its weather-independent fast curing and its smooth consistency and easy application weber.tec Superflex Marine offers the maximum safety against moisture damages for constructions subject to high water loads.

Description

weber.tec Superflex Marine is a factory-mixed, 2-component, waterproofing and adhesive system. With official test certificates. It fulfills the European standard EN 12004 (classified as C1 E / S2) and EN 14891 (CM P).

Composition

Polymer-modified, hydraulically-setting special mortar with selected fillers

Main features

- highly flexible tile adhesive class S2 according to EN 12004
- open to light pedestrian traffic and to grouting works after 4 hours
- time- and cost-saving

- fast-setting, even at cooler temperatures
- weather-independent drying through reactive setting, even under air exclusion
- for shower rooms and flus-floor showers
- for galleys and spa facilities
- with approval for use in swimming pools (fulfills the German KSW recommendations relating to water quality)
- certified by DNV GL
- particularly creamy consistency and hence easy workability
- as protection of moisture-sensitive substrates

Technical values

Pot life:	approx. 45 minutes (uncut); approx. 30 minutes (cut with silica sand)
Delay between layers(floor/wall):	approx. 90 minutes
Open to light pedestrian traffic (for tile fixing):	approx. 4 hours
Open to grouting (after tile fixing):	approx. 4 hours
Open to full load:	approx. 3 days
Crack-bridging:	approx. 1 mm
Watertightness:	1.5 bar
Impact sound level reduction (DIN 4109):	up to 7 decibels
Crack-bridging performance (EN 14891):	≥ 0.75 mm down to -5°C (CM 01 P)
Density of mixed compound:	approx. 1.05 kg/dm ³
Class of reaction to fire (EN 13501-1):	E
Clean-up:	water (fresh product); only by mechanical means and with thinner weber.sys 992 (dry product)

Quality control

weber.tec Superflex Marine is subject to a regular internal quality control according to EN 12004, EN 14891, DIN 18531 and 18534.

General notes

- All characteristics mentioned in this data sheet are based on a temperature of +23°C, without draught and a relative humidity rate of 50%.
- Lower temperatures slow down, higher temperatures accelerate the reaction process

- Do not use material that has already stiffened.
- Refer to national standards and guidelines; if not issued and if necessary, refer to the German “Guidelines for Solid-bonded Waterproofing systems under Tiles” (AiV-F) and the current versions of ZDB leaflets.
- Existing structural joints in the substrate must be waterproofed with a sealing tape system, for e.g. weber.tec 828; they must be taken over in the top ceramic covering at the same places.

Special notes

- Do not use the material on frozen substrates, at freezing temperatures, or high temperatures (above +30°C substrate temperature).
- Protect the fresh waterproofing layer from direct sunlight, frost and rain.
- After 3 days, weber.tec Superflex Marine is permanently waterproof in underwater areas.
- The waterproofing layer is not suitable for direct use. Only use in combination with an appropriate protective layer (screed, tiles, or natural stones) is allowed.

Substrates

- Allowed substrates for waterproofing: all steel surfaces that have been appropriately pre-treated and protected against corrosion and aluminium surfaces.
- Not allowed laying materials: shiny or moisture-sensitive natural stones, glass mosaic and glass tiles.

Substrate preparation

- Like for all solid-bonded waterproofing layers, the substrate must be sufficiently sound, clean, dry, frost-free, free of oil and grease, dimensionally stable and free of adhesion-impairing particles.
- Remove rust, patina and loose or flaking mortar and paint residues.
- Untreated metal substrates such as welding seams or similar must first be pre-treated with a suitable corrosion protection.
- Mineral substrates: in case of unevennesses or small-size slopes use weber. tec Superflex Marine as levelling/patching mortar in a mixing ratio of 1 part by weight weber.tec Superflex Marine and 2 parts by weight oven-dried silica sand weber.sys Hartquarzmaterial (0.1 - 0.5 mm).
- PVC connections: roughen with sandpaper and apply weber.tec Superflex Marine in a thin-layer, so as to achieve a solid contact layer on the PVC. Check on a trial area, if the bonding is sufficient.

- Old ceramic coverings: use the bonding primer weber.prim 803. Verify adequate bonding via a preliminary test; in case of inadequate bonding, it may be necessary to roughen the substrate by mechanical means.
- Aluminium and zinc: degrease with the thinner weber.sys 992 and cover with the 2-comp. solvent-free epoxy resin weber.tec 827 S. Broadcast the fresh resin layer with weber.sys Hartquarzmaterial (0.7 - 1.2 mm) up to saturation; after hardening (24 hours) remove excess silica sand and apply weber.tec Superflex Marine.
- Other metals: degrease with the thinner weber.sys 992 and apply weber. tec Superflex Marine directly.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- The amounts of liquid and powder are delivered pre-mixed and adjusted to each other. Always mix the components A and B in a ratio of 1 : 1 part by weight with high-performance electric drill (max. 800 rpm/min.) and stirrer weber.sys Rührpaddel no. 8.
- Mix until a homogenous, lump-free compound is obtained. Mixing time 2 - 3 minutes

Application as waterproofing layer

- In areas with corners, expansion joints, butt joints and movement joints, use the waterproofing system weber.tec 828. First apply one coat of weber. tec Superflex Marine along the concerned areas; afterwards the system components (lip-type seal around pipes weber.tec 828 MD or MDK and prefabricated inner and outer corners weber.tec 828 DA or DI) are inserted into the fresh coat and then the sealing tape weber.tec 828 AB 50 or 100 is embedded with an overlap of at least 5 cm in the butt areas. After drying the sides of all system components are coated over (approx. 1 cm over the fleece-free zone) with a second coat of weber.tec Superflex Marine. Refer to the technical data sheet.
- Apply weber.tec Superflex Marine in 2 - 3 operations full-surface and pore-free, using a brush, bricklayer's brush or a smoothing trowel.
- A total dry layer thickness of 2 mm must be achieved at every point of the waterproofing layer.
- The 2nd and 3rd layer for waterproofing are applied as soon as it cannot damage the previous one.
- In case of porous substrates (e.g. concrete, screed, render) first apply a thin scratch layer of weber.tec Superflex Marine at a rate of approx. 0.5 kg/m² with a flat trowel prior to waterproofing works, in order to prevent blistering.

- The application in one coat (for waterproofing and tile fixing) is only allowed when the tiles will subsequently be fixed with weber.tec Superflex Marine in the buttering-floating method. This application can only be done with the specific notched trowel weber.sys Abdicht- & Verlegeglätter. The notches of this trowel provide a waterproofing layer of 2 mm-thickness in one go and at the same time a layer of tile adhesive mortar of approx. 2.5 mm thickness.
- Do not mix with silica sand for waterproofing works.

Application as tile adhesive

- Whenever the above-mentioned specific trowel is not used, let the waterproofing layer(s) dry 4 hours before tiling works can begin.
- Apply the material as tile adhesive in a uniform layer thickness with a notched trowel at an angle of 45° - 60° in accordance with the type of ceramic tiles.
- We always recommend the buttering-floating method for laying tiles, whenever the risk of hollow areas under the tiles should be excluded.
- The consistency can be adjusted by adding the silica sand weber.sys Hartquarzmaterial (0.1 - 0.5 mm) in a mixing ratio of maximal 1 : 1 part by weight.
- Mortar residues must be removed when fresh with the sponge weber.sys Fugenwaschschwamm.
- Clean equipment with water immediately after use. Remaining stains and hard residues can be removed only by mechanical means with addition of the thinner weber.sys 992.

Practical information

Colour:
blue-grey

Tools:

Electric drill + stirrer weber.sys Rührpaddel no. 8, flat trowel for scratch layer, weber.sys Abdicht- & Verlegeglätter (only for application in one layer), smoothing trowel, brush or bricklayer's brush (separate application in 2 - 3 layers for waterproofing), notched trowel (separate application for tile fixing), sponge weber.sys Fugenwaschschwamm

Storage:

The product can be stored for at least 12 months in its original unopened packaging, if kept dry, cool and frost-free. Frost will destroy the liquid component. After thawing it is not allowed to be used.

Consumption / yield

As solid-bonded waterproofing layer	approx. 2.5 kg/m ² in 2.0 mm thickness
As tile adhesive	approx. 2.6 kg/m ² with 10 mm-notched trowel; approx. 4 kg with medium-bed trowel

Technical Data Sheet



As waterproofing layer and tile adhesive
(in one operation)

approx. 4.9 kg/m² with the specific trowel
weber.sys Abdicht- & Verlegeglätter

Packagings

Type	Sales unit	Number / euro-pallet
Plastic bucket (= 3 bags of 3 kg liquid + 3 bags of 3 kg powder)	24 kg	18 buckets

The information in this technical data sheet is based on our current knowledge and experience at the time of printing. However, they do not guarantee in the legal sense.