

weber.xerm 847 (Superflex® 41)

Flexible, solvent-free, two-component epoxy resin waterproofing compound and tile adhesive (trowel grade)

With official test certificates (FRG)

Description

weber.xerm 847 (SUPERFLEX 41) is a highly flexible, trowel- grade solvent-free, 2-component epoxy resin. It is a waterproofing compound as well as a tile adhesive with a high bonding strength when applied to glazed and unglazed ceramic tiles, concrete, plaster and floor screeds. After thorough hardening weber.xerm 847 (SUPERFLEX 41) has the following main features:

- Crack-bridging
- Waterproof
- Highly-flexible
- Resistant to heat and freezing
- Resistant to countless diluted acids and alkaline solutions.

Product data

Base	epoxy resin
Colour	light grey
Components	2
Consistency	trowel-grade (non-sag)
Density	app. 1.2 kg/dm ³
Mixing ratio by weight	comp. A: 10.0 kg comp. B: 1.2 kg
Pot life at + 20 °C	5 kg: approx. 30 minutes; 10 kg: approx. 25 minutes + 10 °C to + 35 °C (air and substrate)
Application temperature	+ 10 °C to + 35 °C (air and substrate)
Dry residue	100%
Open to pedestrian traffic ¹⁾	after 24 - 48 hours
Grouting ²⁾	after 24 - 48 hours
Open to full service	after 7 days
Clean-up	weber.sys 992 (thinner AX)

¹⁾ This figure is given for +20 °C and 65 % r.h. The hardening time will be longer in case of non-porous substrates and/or in case of dense ceramic tiles.

Range of application

weber.xerm 847 (SUPERFLEX 41) is highly adhesive on glazed and unglazed ceramic surfaces and absorbent mineral substrates in indoor and outdoor areas.

It is also highly adhesive on the waterproofing membranes weber.tec 827 (SUPERFLEX 40) and weber.tec 827 S (SUPERFLEX 40 S).

weber.xerm 847 (SUPERFLEX 41) is suitable as a trowel-grade waterproofing compound and as a tile and slab adhesive, particularly for renovation works for:

- balconies and terraces, even on existing glazed and non-glazed ceramic coverings
- wet-duty rooms
- saunas and solariums
- commercial kitchens
- laboratories

In addition, weber.xerm 847 (SUPERFLEX 41) is suitable for embedding rain gutter hanging fixtures on balconies and terraces. These metal fixtures must be additionally anchored and press fit with the substrate.

Limits of use

weber.xerm 847 (SUPERFLEX 41) is not convenient on existing ceramic coverings in outdoor areas (for ex. balconies or terraces) that are located above heated premises.

Working instructions

Mixing

weber.xerm 847 (SUPERFLEX 41) is delivered in 2 components (component A = resin base and component B = hardener).

The quantities of the components are precisely matched to each other in the factory. Avoid using partial quantities whenever possible.

Pierce the upper container part at two spots with a steel drift to discharge the hardener completely into the resin base within the lower container part. Both components are thoroughly mixed within the lower part of the container mechanically with a slow-speed electric drill and weber stirrer Nr. 2 or 8, depending on container size. Attention

must be paid to bottom and walls of the container during mixing. This will prevent any inaccurate dosage. After mixing, no colour difference should be visible in the mixture.

The mixing time is at least 2 minutes.

When decanting the mixed components into an empty container after mixing and when mixing again for one more minute, the mixing will be improved. When using partial quantities, the mixing ratio given on the container label must be observed. Immediately after mixing the product must be applied.

Preparation of substrates

Suitable substrates are absorbent mineral surfaces and glazed or unglazed ceramic tiles.

The substrate must be dry, sound, clean, free from cement laitance, dirt, oil, grease or any other adhesion-diminishing particles. Bitumen (poured asphalt), tar surfaces and steel surfaces are not suitable.

The concrete must have a compressive strength of $\geq 30 \text{ N/mm}^2$ and a pull off strength of $\geq 1.5 \text{ N/mm}^2$.

The residual moisture content of mineral substrates must be less than 4% by weight (measured with carbide hygrometer).

The temperature of the substrate must be at least 3 °C above the dew point to reduce risk of condensation.

Completely remove grease and wax stains (e.g. due to the use of household cleaners) with weber.sys 992 (thinner AX).

Check the bonding of weber.xerm 847 (SUPERFLEX 41) on pre-treated or factory-supplied non-glazed tiles and slabs in a pre-test. If adhesion is insufficient, then roughen the substrate through sanding or sandblasting and check the adhesion again.

Larger cavities or damaged areas must be repaired beforehand.

The following primers are required depending on the substrate:

Glazed or unglazed ceramic tiles	no primer, just clean and roughen
Absorbent mineral surfaces	primer weber.prim 807 (EUROLAN FK 28); consumption: approx. 150 to 300 g/m ² according to the substrate porosity

Application

Apply weber.xerm 847 (SUPERFLEX 41)

a) either on the still tacky primer (without quartz sand) or

b) on the cured primer which has been strewn with weber kiln-dried silica sand (grain size 0.1 - 0.5 mm)

Apply weber.xerm 847 (SUPERFLEX 41) in one coat on horizontal, vertical or inclined surfaces with a notched trowel (weber spreading trowel with comb No. 2) and immediately thereafter smooth in a uniform 0.2 mm thick with the smoothing trowel. Consumption: approx. 2.4 kg/m².

After approx. 24 to 48 hours (depending on air and substrate temperature) lay the ceramic tiles in thin-bed method with weber.xerm 847 (SUPERFLEX 41). The notch size of the trowel may not exceed 6 mm.

For horizontal surfaces, weber.xerm 847 (SUPERFLEX 41) may also be implemented in the middle-bed method.

If ceramic tiles are subsequently laid with weber.xerm 858 (DEITERMANN KM Flex) or weber.xerm 853 F (KM Flex + Fix) in the thin-bed or middle-bed method, then strew the layer weber.xerm 847 (SUPERFLEX 41) **fresh-in-fresh** with weber kiln-dried silica sand (grain size 0.7 - 1.2 mm).

Sand off vertical surfaces with oil-free compressed air.

If the sealing tapes weber.tec 828 DB 75 (SUPERFLEX AB 75) or weber.tec 828 DB 150 (AB 150) are bonded with weber.xerm 847 (SUPERFLEX 41), then the overlapping parts must first be cleaned with weber.sys 992 (thinner AX). Wait for evaporation of solvents before bonding.

information contained in this data sheet, must be confirmed in writing.

We reserve the right to make changes representing technical progress.

Consumption

As waterproofing: approx. 2.4 kg/m².

As adhesive: approx. 1.2 kg/m² and per mm layer thickness.

Delivery and storage

weber.xerm 847 (SUPERFLEX 41) is supplied in is supplied in pre-measured two-component kits of 1 kg, 5 kg, and 10 kg (net weights).

The product can be stored dry, cool and in its original sealed packaging for at least 12 months.

Notes

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



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