

## weber.floor 4740

### Multi-use EP coating

#### Pigmented, 2-component epoxy resin coating with universal implementation

##### Fields of application

As thin or thick coating for concrete floors and cement screeds floor surfaces, for e.g. in workshops, warehouses, production areas, car parking decks etc. which are subject to mechanical loads. It can provide smooth thin coatings from 0.5 mm up to approx. 1.5 mm (without silica sand) thickness as well as thick coatings from 1.5 mm up to 5.0 mm (with silica sand). Thanks to addition of silica sand on top non-skid surfaces can be achieved. Also as top sealer on coated surfaces that have been scattered with silica sand, as well as new coating over old epoxy resin coatings. For indoors and outdoors.

##### Description

**weber.floor 4740** is a factory-mixed 2-component, solvent-free, pigmented reaction resin on epoxy resin basis.

##### Main features

- CE marking: SR – B1.5 – AR0.5 – IR6
- decorative look
- universal implementation
- self-spreading
- fulfills the German standards for rigid floor coatings with heavy mechanical loads (OS 8 system)
- can be filled with silica sand for layers over 1.5 mm
- impermeable to moisture and impervious to liquids
- available in a wide colour range (approximately RAL colour chart)
- good chemical resistance
- 100 % solid content (no water and no solvent) as epoxy composition according to the test method of German Association for Construction Chemicals)
- fulfils the German specifications for food industry according to § 31-1 (LFGB)

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## Technical values

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Curing time:	approx. 16 hours
Pot life:	approx. 30 minutes at +20°C
Application temperature (air):	≥ +10°C - ≤ +30°C
Application temperature (substrate):	+10°C - +30°C
Max. relative humidity rate:	< 75 %
Reaction to fire:	class Efl (EN 13501-1)
Application thickness:	0.5 - 5.0 mm
Consistency:	liquid
Open to light load:	approx. 2 days
Open to full load:	approx. 7 days
Mixing ratio:	comp. A (resin base) : comp. B (hardener) = 100 : 25 parts by weight
CE marking:	SR - B1.5 - AR0.5 - IR6

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## Quality control

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**weber.floor 4740** is subject to a regular quality control by self-monitoring.

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## General notes

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- Follow the national guidelines/standards; if not issued and if necessary, refer to the BEB data sheets "Industrial floors of reactive resin KH-O/U, KH-1 to KH-5 and KH-O/S" (Germany).
  - Minor shade deviations are unavoidable due to different product batches. If a uniform colour appearance is important, work on contiguous sections should be carried out using the same batch number (see label on packaging).
  - All characteristics mentioned in this data sheet relating to pot life, delay for pedestrian traffic, consumption and filling ratios with mineral fillers are temperature-dependent and are based on +20°C.
  - Epoxy resins are not permanently colour-stable under UV radiation (direct sunlight) and weather influences and they tend to become chalky due to accelerated ageing.
  - The substrate temperature must be at least 3°C above the prevailing dew point temperature.
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## Special notes

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- Porous substrates and concretes with air-entraining agents can lead to blisters and channels in the coating.
  - When used in thicknesses from 0.5 mm up to 1.5 mm or as thin top seal layer **weber.floor 4740** must be used uncut (without silica sand).
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- When used in thicknesses from 1.5 mm up to 5.0 mm mix silica sand **weber.floor 4935** (0.1 - 0.3 mm) up to 50% by weight.
- The above-mentioned abrasion class (AR) of the CE marking label is given for a smooth coating (without any broadcast of silica sand on top and without mixing with silica sand).
- The minimal thickness of **weber.floor 4740** must be at least 2 mm when applied on fibre-reinforced levelling mortars.

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## Substrates

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- Concrete, cement screeds and epoxy resin coatings with silica sand on top are allowed substrates.
- Other substrates must be examined case-by-case.

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## Substrate preparation

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- The substrate must be solid, load-bearing, dry, and free of dust and all adhesion-impairing impurities.
- Optimal bonding of reactive resins onto the substrate depends on careful preparation. Therefore, the substrate must always be prepared by appropriate mechanical means, for e.g. shot blasting, milling etc., so that a tensile strength (pull-off strength)  $\geq 1.5 \text{ N/mm}^2$  in case of industrial floors and  $\geq 1 \text{ N/mm}^2$  in case of residential and commercial floors is reached.
- Reactive resin coatings require a smooth, load-bearing and uniformly primed substrate.
- Use the 2-comp. solvent-free epoxy primer **weber.floor 4710** (normal-setting). Observe the technical data sheet.
- Major unevennesses of concrete must be levelled out with the cement-based levelling mortars **weber.floor 4602** Industry Base Extra or **weber.floor 4655** Industry ResinBase.
- Intensively sand or roughen old, well-bonded epoxy coatings until “white break”. If in doubt, carry out a test on a trial area.
- The substrate preparation must be adapted to the specific job site conditions.

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## Working instructions

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### Mixing

- **weber.floor 4740** is supplied in 2 pre-mix twin packagings (component A = resin base and component B = hardener) with the specific mixing ratio for use. Avoid mixing of partial quantities.
- Empty the component A totally into the component B.

- Mix both components with a slow-speed electric drill and with the stirrer **weber.sys Rührpad-del** no. 2 or no. 8 for approx. 2 minutes, at least until a homogeneous mixture of uniform colour is achieved.
- Care must be taken to ensure that the product is also thoroughly mixed in the corners and at the bottom of the mixing container.
- We recommend decanting into a clean container and mixing shortly again.

## Application

- Pour mixed material (with or without silica sand) onto the cured primer **weber.floor 4710** and distribute in the intended layer thickness. Always work “wet-on-wet” to avoid breaks.
- Do not use rakes with steel pins.
- Smooth and unfilled coatings (without silica sand) in layer thickness 0.5 - 1.5 mm: use the rake **weber Großflächenraker** equipped with the notched blade **weber Zahnleiste no. 1** (notch 2.5 mm). Consumption: approx. 1.0 - 1.5 kg/m<sup>2</sup>
- Filled coatings (with silica sand) in layer thickness 1.5 - 5.0 mm: use an electric drill and an appropriate stirrer, and mix 1 part by weight **weber.floor 4740** and 0.5 part by weight **weber.floor 4935** (0.1 - 0.3 mm); use the rake **weber Großflächenraker** equipped with the notched blade **weber Zahnleiste no. 2** (notch 5.0 mm).
- When working on inclined or vertical surfaces, add the thixotropic agent **weber.floor 4917** (2% - 8%) after mixture of both components of **weber.floor 4740** in order to achieve a non-sag consistency. Use a flat trowel.
- For a non-skid surface or a decorative coating broadcast the fresh coating with oven-dried silica sand in the desired grain size up to saturation. After 24 hours sweep away the excess material (non-bound sand) and apply **weber.floor 4740** (unfilled) on top as sealer, using a rubber squeegee for distributing the material and afterwards with a shorthair lambskin roller for providing a thin layer.
- Clean work equipment with the thinner **weber.sys 992** immediately after use and whenever working steps are interrupted (fresh product). Hardened material can only be removed mechanically.

## Aftercare

- Avoid water load within the first 7 days.
- A premature water load or dew point situation can impair the setting process, with spots and differences of the gloss level as result.
- If a matte finish is requested, apply the 2-comp. matte and low-emission epoxy sealer **weber.floor 4774**. Delay between coating and sealer: at least 16 hours, maximum 24 hours at +20°C.
- The application of an additional wear coat on smooth coatings/sealers with a wax-dispersion based treatment is recommended. Request technical advice.

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## Practical information

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### Colours:

standard colours (approximately RAL chart): 1001, 1015, 3009, 5014, 6011, 7001, 7015, 7023, 7030, 7032, 7035, 7040; other colours on request

### Tools:

Electric drill + stirrer **weber.sys Rührpaddel no. 2** or **no. 8**, rake **weber Großflächenraker** equipped with the notched blade **weber Zahnleiste no. 1** (notch 2.5 mm) or no. 2 (5.0 mm), rubber squeegee, shorthair lambskin roller, flat trowel.

### Storage:

The product can be stored at least 12 months in its original unopened packaging, if kept dry, protected from moisture and direct sunlight, and at temperatures  $\geq +10^{\circ}\text{C}$ .

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## Consumption

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per mm layer thickness: as unfilled coat (without silica sand)	approx. 1.4 kg/m <sup>2</sup> approx. 1.0 - 1.5 kg/m <sup>2</sup>
per mm layer thickness: as filled coating at a ratio of 1 : 0.5 part by weight per mm layer thickness:	depends on grain size of silica sand; for e.g. a grain size of 0.7 - 1.2 mm: approx. 0.9 - 1.0 kg/m <sup>2</sup>

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## Packagings

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Type	Sales unit	Number / euro-pallet
Metal bucket (kit with comp. A + comp. B)	10 kg	30 buckets
Metal bucket (kit with comp. A + comp. B)	30 kg	12 buckets

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*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.*