



PRODUCT DATA SHEET

weberfloor 550

Self-levelling, fast-hardening, cementitious flooring system for epoxy paint and vinyl sheet finish

PRODUCT

weberfloor 550 is a machine or hand-applied self-levelling floor surfacing system formulated from special blended cement, aggregates, supplementary binders and chemical additives. **weberfloor 550** is designed as a smooth underlayment to receive an epoxy coating or vinyl sheet finish. Under normal conditions, access onto the floor is available after 2 – 3 hours. Provided that the substrate is suitably dry, the final flooring can be laid after 24 hours (for a 10 mm layer). The product is supplied as a pre-blended, dry powder designed for application at a thickness of 4 – 10 mm in one operation. Normal application thickness is 6 – 10 mm. **weberfloor 550** does not contain casein or other protein-bearing additives, making it particularly suitable for use in hospitals, food preparation areas and storage areas.

Uses

- Residential and commercial flooring
- Hospitals, schools, sports stadiums, theatres, etc.
- Smooth underlayment to receive vinyl sheet, carpet and other finishings
- Classified as C30 F5 B2,0 according to BS EN 13813, 13892-2, 13892-8

Features and Benefits

High-quality product

- Formulated to comply with European Norm
- Available for foot traffic after 2 hours
- Good abrasion resistance
- Very low shrinkage to prevent cracking
- High compressive strength
- Water resistance: can be exposed to water spillage without damage
- Chemical resistance: similar to dense concrete

Easy application

- Single component: fixed mixing proportion, ensure the quality of work
- Suitable for both hand and machine applications
- Fast application with self-levelling feature: up to 300 m² per hour
- Can apply vinyl sheet, carpet and tiling directly
- Should be applied on a primed floor (with **weberfloor primer**)

Environmental friendly

- Low pH and less aggressive to floor finishing
- Casein-free: environmentally friendly
- Low VOC content

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TECHNICAL DATA

Colour	Grey
Component	Special blended cementitious materials, non-reactive aggregate, graded sand and other chemical additives
Max. nominal aggregate size	0.5 mm
Water demand	Approx. 20 – 22% (5 – 5.5 L/25 kg bag)
Density	1.3 kg/L (dry) 2.0 kg/L (wet) for 21% water demand
pH value	10 – 11
Thickness	4 – 10 mm
Time for foot traffic	2 hours
Coverage	Approx. 1.7 kg/m ² /mm
Theoretical Consumption	Approx. 10.2 kg/m ² for a thickness of 6 mm Approx. 2.5 m ² / 25 kg bag for a thickness of 6 mm

PHYSICAL PROPERTIES

Adhesion to concrete	BS EN 13892-8	≥ 2.0 N/mm ²
Flexural strength	EN 13892-2	1 day: ≥ 2.5 N/mm ² 7 days: ≥ 4.0 N/mm ² 28 days: > 5.0 N/mm ²
Compressive strength	EN 13892-2	1 day: ≥ 13 N/mm ² 7 days: ≥ 20 N/mm ² 28 days: > 30 N/mm ²
Abrasion resistance	Rolling Wheel Abrasion: EN 13892-7	RWFC 350
Flow	BS EN 12706	≥ 140 mm
Shrinkage	BS EN 13454-2	28 days: ≤ 0.25 mm/m ≤ 0.025%
pH value	EN 12859	10 - 11
VOC	USEPA Method 24	22 g/L

Unless specified, all technical data are average values and refer to 28-day curing time.

The above physical data are taken from laboratory tests. In situ material performance may vary according to environmental & workmanship conditions beyond the manufacturer's control.

Complied Standard

European Norm : BS EN 13813, BS EN 12892 – 2, 7 & 8, BS EN 13454 – 2, BS EN 12706, EN 12859

PROCEDURE

Substrate Preparations

The concrete substrate must be hard, sound and free from surface contamination. All dust and contaminants should be vacuum-cleaned before installation. Joints should be formed in self-levelling screed to BS8204.

Mixing and Installation

Substrate should be primed by brushing diluted **weberfloor primer**. For the first coat, **weberfloor primer** diluted with clean water at a ratio of 1:5 should be applied. Allow the first coat to become tacky and dry before applying the second coat. For the second coat, **weberfloor primer** diluted with clean water at a ratio of 1:3 should be applied. Wait for the second coat to become tacky and dry before applying **weberfloor 550**.

Hand application: Mix a bag of dry mix powder (25 kg) with 5 – 5.5 L (20 – 22%) water by using an electric mixer for 3 – 4 minutes.

Apply **weberfloor 550** on a primed substrate and under working conditions above a temperature of 10 °C. For continuous application, adequate mixing of the material is necessary. **weberfloor 550** can be applied by a trowel or steel spatula.

Machine application: Adjust the flow rate of the machine until a smooth and homogenous mixture is obtained without segregation. A flow ring with a volume of 35 cm³ can be applied to check the spreading of a mixture, whose diameter should be equal to or greater than 130mm.

weberfloor 550 is pumped onto the surface through the discharge hose, which is moved across the substrate surface at a constant pace for a screed with uniform thickness. The required thickness must be achieved in one operation. The best performance can be achieved when pouring and levelling are done in a continuous process.

The freshly applied material can be gently trowelled with a steel spatula to dissipate lines left by the hose. The semi-hardened material may be formed easily or cut for any necessary adjustments.

Finishings such as epoxy coating, vinyl sheets and carpet can be applied 24 hours after curing.

Please refer to our method statement for procedures in detail.

Curing

The relative humidity of the surrounding air should be below 70%. Light ventilation during and after laying is recommended, but dehumidifiers should not be used for the first 2 days. Curing membranes are not required.

STORAGE AND PACKING

weberfloor 550 is delivered in a 25 kg bag. Storage life is 6 months in an unopened package with plastic wrapping kept in a dry and cool place.

HEALTH AND SAFETY

Recommend wearing a NIOSH-approved or equivalent particulate face mask when mixing the material.

The material contains cement, which may produce an allergic reaction.

Keep out of reach of children.

Material may cause irritation to the eyes and skin. In case of contact with the eyes, rinse immediately with plenty of water and seek medical assistance. After contact with skin, wash immediately with plenty of soap and water.

Please refer to the Material Safety Data Sheet (MSDS) for health, safety and handling of the product.

CLEANING & DISPOSAL OF WASTE

Cured material can be removed mechanically; if uncured, material can be removed with water. Dispose of waste in accordance with legislation.

* Note: The information and physical data in this catalogue are given to the best of our knowledge under standard testing methods and a controlled environment. The results may vary with different weather/site conditions, workmanship or substrates. This is beyond our control, and we shall not be liable for any faults or consequences arising from or associated with this. We suggest that comprehensive tests be conducted before the final application. Unless specified, all technical data are average values with a curing time of 28 days. We reserve the right to update or amend the contents in the light of new findings during the course of research and development.