

weberfloor powercoat

Self-levelling, cement-based, coloured screed

Technical Data Sheet
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■ Description

4-15 mm of application range, cement based, self-levelling, coloured screed for decorative and industrial use

■ Reference standards

TS EN 13813
Public Works Pos. No: 04.379/D04

■ Advantages

- Easy application
- It can be used as a finished floor screed.
- Forms a very smooth surface.
- **weberfloor protect** (sealer) can be applied after 24 hours.
- No cracking and blistering
- Very quick spreading
- Suitable for pump application
- UV resistant
- Resistant to cleaning chemicals (bleach, degreaser, surface cleaner, etc.)
- Low dirt retention

■ Application areas

Interiors and exteriors:

It is used as a topcoat in residences, offices, industrial areas, hospitals, shopping malls, stores, warehouses and other living spaces.



■ Application substrates

Interior and exterior floors;

- Cement based screed,
- Concrete floors
- Prefabricated concrete,

Please consult us for all other application substrates.

■ Preparation of substrates

- The substrate must be hard, dry, sound, and free from dust, grease, loose particles, and similar contaminants. Weak layers such as anti-adhesive paints, lime, mortar, plaster, and adhesive residues must be completely removed.
- The substrate must have a minimum compressive strength of 25 N/mm² and a pull-off adhesion strength greater than 1.5 N/mm². All concrete surfaces must have completed a minimum curing period of 6 weeks.
- The moisture content of the screed substrate must not exceed 2.5% by weight.
- The substrate moisture must be accurately measured in advance using the carbide (CM) test. Joints, cracks, and similar junctions in the substrate must be properly carried through to the surface. All junctions with vertical elements must be separated using thin, flexible strips.
- Any localized surface defects must be repaired using **weber rep** mortars from the weber.rep product range. The substrate shall be level, with the slope minimized as far as possible.
- Drain covers must be protected and isolated using suitable stopping materials.
- The surface must be primed in two coats using **weberfloor 4716**. The first coat should be diluted at a ratio of 1:5 (**weberfloor 4716**: water), and the second coat at a ratio of 1:3 (**weberfloor 4716**: water).
- For critical or high-risk substrates, the use of an epoxy-based primer such as **weberfloor 500F** is recommended.

- If the substrate strength cannot be reliably confirmed, a two-coat application is advised. The use of an epoxy primer is a preferred method to enhance substrate safety and performance.
- While the epoxy primer is still wet, silica sand shall be broadcast to achieve full surface saturation.
- After approximately 1 day, all loose sand shall be completely removed using an industrial vacuum cleaner, and the surface shall be cleaned of dust.
- Ensure the primer is fully cured before further application, as insufficient curing may cause adhesion problems. Trowel application is recommended to ensure adequate penetration.

■ Application conditions

- Ambient temperature between +5°C and +30°C.
- Avoid application in extremely hot and/or damp weather.
- Should not be used on frozen or melting substrates, or substrates with the risk of frost within 24 hours.

■ Application

- Add 5.25 litres of clean water to a 25 kg bag of **weberfloor powercoat**. Mix with a hand mixer for about 2 minutes until a homogeneous consistency is achieved. To prevent foaming, the material must be mixed at high speed using mixers that drive the material from bottom to top.
- **weberfloor powercoat** is self-levelling. During pouring, the material should be lightly smoothed and levelled with a triangular-notched trowel or spatula. During application, the triangular-notched trowel should be used to release air bubbles, followed by a flat trowel to achieve the final surface finish.
- For mixer pump application, width of the work area should not exceed 6 meters to not to spoil the flow of the material.
- Spreaded material should be smoothed using spiked roller if needed.
- Depending on the application technique, natural trowel marks may appear on the surface; this is a normal characteristic of the product
- In order to prevent dirt interiors, **weberfloor protect** can be applied after 24 hours.

■ Points of attention

- The product temperature must be checked before preparing the admixture. Cold temperatures can cause inhomogeneous mixture and/or avoid segregation while excessive heat increases viscosity and/or causes gelling.
- The substrate must be investigated before the application.
- Freshly applied surfaces should be protected from air draught, direct sun exposure and excessive heat. The ceiling, doors and windows should be covered. During the application and in the following days, room should be ventilated to allow drying of the material.
- Levelling requirements should be determined before the application.
- Conform to dilatation joints if any exist.
- Do not add any foreign substances.
- Not applicable on loose and weak substrates.
- Not applicable on wooden floors and old substrates which requires repairing.
- Not applicable on wet and damp substrates.
- During application, continuity of the material is necessary. Do not apply **weberfloor powercoat** again on already hardened product.

- Areas like wall edges, door fronts should be closed using profiles or tapes.
- After the product has dried, do not step on the product before **weberfloor protect** (sealer) application.
- Do not try to use trowel on the product when it is about to be drying.
- Avoid foreign substances on the substrate before or during the **weberfloor protect** (sealer) application.
- Avoid drops during pouring and stains before sealing the product.
- All tools used for application should be cleaned with water before drying.

■ Technical specifications

PRODUCT	weberfloor powercoat
Product structure	Powder
Colour	Natural Grey, Light Gray, Anthracite
Mixing rate	25 : 5.25 (weberfloor powercoat : water)
Pot life	60 minutes (23°C, 50% R.H.)
Setting time	90 minutes (23°C, 50% R.H.)
Time required for pedestrian traffic	4-5 hours (23°C, 50% R.H.)
Application thickness	4-15 mm *Minimum application thickness of 8 mm is required when used with forklift traffic.
Mortar flow rate	250 mm (weber standard flow ring 68x35 mm)
PERFORMANCE	
Compressive strength	≥40 N/mm ² (C40)
Flexural strength	≥8 N/mm ² (F8)
Bond strength	≥2 N/mm ² (B2)

■ Storage

Packaging	25 kg kraft bag
Colour	Natural Grey, Light Gray, Anthracite
Shelf life	<ul style="list-style-type: none">• 6 months from date of manufacture when stored unopened and undamaged in a dry, moisture-free environment.• Packages should be kept tightly closed when not in use.• Lumped or petrified products should not be used.

■ Safety precautions

- Use appropriate safety equipment (mask, gloves, glasses).
- Protect your eyes/face.
- Avoid direct contact with eyes and skin.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.
- Please read Safety Data Sheet (SDS) for further safety information, waste management and/or product disposal

LEGAL DISCLAIMER

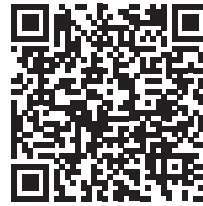
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■ Application tools

Steel trowel, hand mixer, spiked roller, pumping machine

■ Consumption

Approximately 1.80 - 2.00 kg/m² (for 1 mm application)



Access detailed documentation of the product by scanning QR or trweber.

The stated times apply for 20°C substrate and ambient temperature; increase at lower temperatures and decrease at higher temperatures.

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