

Polymer modified self-leveling, fast covering, fine smoothing flooring compound for thicknesses from 1 to 10 mm

PRODUCT

weberfloor smooth FD is a fine smoothing, and low shrinkage flooring leveling compound with fast drying property allowing fast covering with different type of floor finishes between 12 - 48 hours. **weberfloor smooth FD** is to be used internally for smoothing and levelling differences in thicknesses from 1 to 10 mm, on new or existing substrates that can receive all kinds of flooring covering. It has good loads and abrasion resistance which enables the material to be used in areas subject to whirl activity that can result from trolleys and chairs. It provides a fast setting tough surface that will accept light traffic at 3-4 hours depending on the thickness and site conditions.

SCOPE OF USE

weberfloor smooth FD is used for internal application and specially designed to be applied as fine smoothing self leveling from 1 to 10 mm prior the laying of resilient floors such as PVC, vinyl, rubber, carpets as well as wood flooring, ceramics, or natural stones. It can be used in many areas such as:

- Hotels, hospitals, offices.
- Schools, theaters
- Residential buildings
- Malls

Note: **weberfloor smooth FD** could be also applied at a higher thickness ,up to 20 mm, only if mixed with **weberfloor sil s** (0.3-0.8 mm grade) as per the following mix design :

weberfloor smooth FD (23 kg bag)

weberfloor sand (0.3-0.8 mm): 5Kg

water: 5 Ltr

ADVANTAGES

- Fast covering within 12-48 hours due to its fast drying property
- Thin leveling substrates that are intended to be covered with all types of floor coverings (Vinyl, linoleum, tiles..)
- Low shrinkage
- Good abrasion resistance
- Alkalinity barrier which prevents the saponification of the floor covering adhesives at thickness greater than 5mm. Consequently, it minimizes significantly the related VOCs emission

CHARACTERISTICS

Color	Grey powder
Grain size	<1 mm
Powder density	1.2 ±0.05
Covering time	12 - 48 hours depending on thickness and site conditions



PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
23 kg	23 kg	23 kg	23 kg	23 kg	23 kg	23 kg	23 kg

Flowability according to EN 13813	140mm ± 10mm at 5min
Shrinkage according to EN 13872	<0.5 mm/m
Flexural strength at 28 days – EN 13813:2003	6 MPa
Compressive strength at 28 days – EN 13813:2003	>20 Mpa
Bond strength as per EN 13892-8:2002	2 MPa
VOC	Low VOC
Ideal application temperature range	+5 to +35 °C

APPLICABLE STANDARDS

EN 13872; EN 13813

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

- Concrete substrate should be at least 3 months old and structurally stable (residual moisture <4%).
- Concrete must be crack free. Thus, any crack must be repaired prior to application.
- All surfaces should be clean, dry, and free from grease, laitance, oil, dust, paint and any other substance that may prevent or reduce adhesion.
- Remove all weak, loose, smooth or broken pieces of concrete, until reaching a sound rough concrete. This can be

achieved primarily by shot-blasting otherwise by medium scarifying or grinding.

- The prepared surface must have an average "surface tensile adhesion strength" greater than 1MPa. Moreover, it should have CSP (concrete surface profile) of 3 to 4.

- Then, the substrate must be vacuumed, and primed with **weberfloor 4716** prime

. Weber does not warrant any defect due to concrete substrate movement.

Primer Application

- **weberfloor 4716** must be brushed into the substrate using soft brush. Primer's puddles should be avoided.
- **weberfloor 4716** must be applied on one or two coats depending on the substrate
- For dry and porous substrate, dilute first coat of **weberfloor 4716** with water at the ratio 1:5. Allow to dry a clear film before applying the second layer with a dilution ratio 1:3
- For dense concrete, apply one coat of **weberfloor 4716** diluted at the ratio 1:3
- **weberfloor smooth FD** should be applied as the colour of the primed surface change from white to soon as clear.

PRODUCT PREPARATION

Manual application

weberfloor smooth FD is to be mixed in full bag batches. Do not mix partial bags. Each 23 Kg bag of **weberfloor smooth FD** is to be mixed with 4.8 to 5 liters of clean and cool water. Measure and add the proper amount of water for each bag into a mixing container. Using a paddle type mixer on a slow speed drill (speed below 500 rpm) , place the paddle in the mixing water and start pouring slowly **weberfloor smooth FD** powder. Mix for a minimum of 2 minutes until a homogeneous lumps free is obtained. Scrape the sides of the mixing container and remix for 1 minute. Allow the mixed materials to stand for 2 minutes and remix slightly before the application.

- Make sure that the mixed material has a temperature not exceeding 30 C (use ice if necessary to cool down the water).
- Adjust the amount of water in a way to obtain a flow of 240 - 260 mm (without bleeding) using weber flow set.

Note: Do not add more water to a mix which has already begun to kit.

Mechanical application

- **weberfloor smooth FD** can be mixed and applied by using the appropriate pumping machine.
- Water ratio should be adjusted to obtain a flow of 240 - 260mm using weber flow kit without bleeding or separation.

PRODUCT APPLICATION

Limit the work areas into manageable sections of approximately

50 m². Reduce the width of the work area when applying in warmer temperatures or use cold water. Pour the mixed material onto the prepared surface, then immediately spread it with a large metal trowel to aid in leveling and smoothing the surface. Do not walk on the wet material unless wearing spiked shoes or boots. Always keep a wet edge of material to pour fresh material into. Protect the material from wind when installing. Allow longer cure time of the material before walking on if the temperature is below 23°C. Ideal application temperature is between +5°C and +35°C.

STORAGE

One year after manufacturing date in its original packing non open and in dry and shaded cool area.

COVERAGE

1.7 kg/m²/1mm thickness approx.

PRECAUTIONS

As with all cementitious products in hot weather, take adequate measures to protect it from exposure to direct sunlight and hot winds. Make sure to keep the bags under shade before 24 hours from the application. No water curing is requested. It is preferable to subdivide the total area of application in smaller ones not exceeding 50 m² each in order to facilitate the application of **weberfloor smooth FD**

- All existing movement/expansion joints in the base should be maintained and continued through the **weberfloor smooth FD**.
- It is advisable to leave control joints each 50m². Rectangular shape is preferable making sure that the length not exceeding 15m.
- In case of corridors, it is recommended to fix control joints on each 15 linear meters and in each connection between corridor and room. The joints should be sealed with **weber-jointseal PU**.
- In hot and dry weather, it is preferable to apply the product early morning or late afternoon.
- Avoid work under heavy windy condition where the product may dry fast and cracks might appear.
- All the opening (windows, doors) should be closed in order to reduce the effect of wind during the application and while the applied area still fresh. Any applied materials should be protected from sun light.
- After usage, clean tools with water. It is recommended to use protective gloves. In case of contact with the eyes, clean thoroughly with water.
- Water must not be overdosed.
- Do not add more water to a mix which has already begun to set.

. For additional information, please contact our technical support department or one of our Sales Engineers.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

NOTE

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