weberfloor 535 FD

FLOORING

Polymer modified self-leveling, fast covering, high strength, flooring compound for thicknesses from 2 to 30 mm

PRODUCT

weberfloor 535 FD is a fast drying, low shrinkage and self leveling cementitious underlayment flooring compound. **weberfloor 535 FD** is to be used internally for smoothing and levelling differences in thicknesses from 2 to 30 mm, on new or existing substrates. **weberfloor 535 FD** has fast covering property which can receive all kinds of flooring covering at 24 hours from the application. 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 after 3-4 hours depending on the thickness and site conditions.

SCOPE OF USE

weberfloor 535 FD is used for internal application and specially designed to be applied as self-leveling from 2 to 30 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, theaters, hospitals
- Schools, institutions, offices
- Residential buildings
- Malls, airports halls

weberfloor 535 FD can be used also for levelling existing concrete pavements, terrazzo, ceramic, or natural stone after a good surface preparation and priming.
weberfloor 535 FD could be used with underfloor heating system according to special instructions respecting the start-up heating procedure.

ADVANTAGES

- Fast covering at 24 hours due to its fast drying property
- Pumpable
- Can be used as part of comfort solutions: thermal or sound impact insulation systems
- High strength
- Leveling substrates that are intended to be covered with all types of floor coverings (Vinyl, linoleum, tiles...)
- Very 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

APPLICABLE STANDARDS

EN 13454-2; EN 13813; EN 13892



PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
25 kg	25 kg	25 kg	25 kg	25 kg	25 kg	25 kg	25 kg

CHARACTERISTICS

Color	Grey powder
Grain size	<1.5 mm
Powder density	1.25 ±0.05
Covering time	24 hours depending on site conditions
Flowability according to EN 13813	140mm ± 10mm at 5 minutes
Shrinkage according to EN 13454-2	<0.5 mm/m
Flexural strength at 28 days – EN 13813:2003	>9.5 MPa
Compressive strength at 28 days – EN 13813:2003	>35 MPa
Bond strength at 28 days as per EN 13892-8:2002	2 Mpa
VOC	Low VOC
Ideal application temperature range	+5 to +35 °C

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, concrete laitance, oil, dust, paint and any other substance that may prevent or reduce adhesion.
- Remove mechanically all weak, loose, smooth or broken pieces of concrete, until reaching a sound rough concrete. The substrate should have a CSP (concrete surface profile) of 3 to 5 (especially for the self-levering application at thicknesses greater than 15 mm) which can be obtained primarily by shot-blasting otherwise by medium scarifying or grinding.
- The prepared surface must have an average "surface tensile adhesion strength" greater than 1MPa.
- Once the substrate is prepared, it must be vacuumed, and primed with **weberfloor 4716**. In case of critical substrates, it is highly advisable to use an epoxy primer such as **weberfloor epo prime** in order to reduce tremendously the possibility of obtaining cracks.
- Weber does not warrant any defect due to concrete substrate movement.

PRIMER APPLICATION

1- weberfloor 4716 application (Acrylic primer)

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 however, for dense concrete, apply one coat of **weberfloor 4716** diluted at the ratio 1:3.

weberfloor 535 FD should be applied as soon as the color of the primed surface change from white to clear. It is highly recommended to wear spiked shoes before and during the primer application on the prepared floor surface.

2- weberfloor epo prime application (Epoxy primer)

Add Part B over Part A, mix the two parts for 2 - 3 minutes by an electric mixer with low rotation speed (< 300 rpm). Make sure to Keep the drill paddle below the surface of the material to avoid entrapping air. **weberfloor epo prime** must be well mixed to ensure proper chemical reaction. After mixing, keep the mix to rest for 2 minutes before the application in order to release any entrapped air.

It is highly recommended to wear spiked shoes before and during the primer application on the prepared floor surface.

Apply **weberfloor epo prime** in a first operation at a rate of 100 to 200 g/m^2 using a brush, roller or an airless sprayer. After approx 10 minutes, apply the second coat of **weberfloor epo prime** at a rate of 300 to 400 g/m^2. Immediately scatter the silica sand over the wet surface of the primer second coat. The broad casted sand must be oven dry (size 0.5 mm to 1 mm) and should be equally broad casted to maintain an even desperation and to avoid sand clumps on the floor. After 24 hrs remove the excess of silica sand by sweeping or vacuuming, thereafter apply **weberfloor 535 FD**.

PRODUCT PREPARATION

Manual application (electrical mixer):

weberfloor 535 FD is to be mixed in full bag batches. Do not mix partial bags. Each 25 Kg bag of **weberfloor 535 FD** is to be mixed with 4.4 to 4.6 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 500rpm), place the paddle in the mixing water and start pouring slowly **weberfloor 535 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 water).

Adjust the amount of water to obtain a flowable, homogeneous mixture without bleeding or separation. (a flow of 240 to 260mm using **weber flow** kit would be recommended).

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

Mechanical application

- **weberfloor 535 FD** can be mixed and applied by using the appropriate pumping machine.
- Water ratio should be adjusted to obtain a flowable, homogeneous mixture without bleeding or separation. (a flow of 240 to 260mm using **weber flow** kit would be recommended).

PRODUCT APPLICATION

Limit the work areas into manageable sections of approximately 50 m^2. 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 in the wet material unless wearing spiked shoes or boots. During and after the application, the product must be protected from wind currents. If the temperature is below 23°C, allow longer curing time of the material before walking on it (Ideal application temperature is between +5 and +35°C).

STORAGE

One year after manufacturing date in its original packing non open and in dry 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. 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 535 FD**

- All existing movement/expansion joints in the substrate should be copied through the **weberfloor 535 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 **weberjointseal 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. Additionally, the applied materials should be protected from sun light.
- 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.
- The product water curing is not required, however equipments and tools could be cleaned with water. 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.

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