weberfloor 525 FD

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

PRODUCT

weberfloor 525 FD is a fast drying, low shrinking and self leveling cementitious underlayment flooring compound. **weberfloor 525 FD** is to be used internally for smoothing and levelling differences in thicknesses from 2 to 30 mm, on new or existing substrates. **weberfloor 525 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 at 3-4 hours depending on the thickness and site conditions.

SCOPE OF USE

weberfloor 525 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, offices
- Residential buildings
- Malls, airports halls

weberfloor 525 FD can be used also for levelling existing concrete pavements, terrazzo, ceramic, or natural stone after a good surface preparation and priming.

weberfloor 525 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
- 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

CHARACTERISTICS	
Color	Grey powder
Grain size	<1.5 mm
Powder density	1.25 +/-0.05
Covering time	24 hours depending on site conditions



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

Flowability according EN 13813	140mm +/- 10mm at 5 to minutes
Shrinkage accordin to EN 13454	<0.5 mm/m
Flexural strength at 28 days - EN 13813:2003	≥5 MPa
Compressive strength at 28 days – EN 13813:2003	≥25 MPa
VOC	Low VOC
Ideal application at temperature range	+5 to +35 °C

APPLICABLE STANDARDS

EN 13454-2; EN 13813; EN 13892-8.

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 5.
- Then, the substrate must be vacuumed, and primed with **weberfloor 4716**.

. Weber does not guarantee 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 525 FD** should be applied as soon as the colour of the primed surface change from white to clear.

For thicknesses higher than 10mm, it is recommended to fix soft strips as a separation between the walls (or columns) and the self-leveling before proceeding with the application

PRODUCT PREPARATION
Manual application:
weberfloor 525 FD is to be mixed in full bag batches. Do not mix partial bags. Each 25 Kg bag of **weberfloor 525 FD** is to be mixed with 4.9 to 5.2 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 525 FD** powder. Mix for a minimum of 2 minutes until a homogeneous lumps free mixture 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 cool down 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 525 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. 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 and +35°C

COVERAGE
1.7kg/m2 at 1mm thickness approx.

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

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 required. It is preferable to subdivide the total area of application in smaller ones not exceeding 50 m^2 each in order to facilitate the application of **weberfloor 525 FD**
- All existing movement/expansion joints in the base should be maintained and continued through the **weberfloor 525 FD.**
- It is advisable to leave control joints each 50m^2. 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. 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.

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