weberfloor rapid

Rapid drying, shrinkage controlled semi-dry floor screed.

PRODUCT

weberfloor rapid is a ready to use rapid drying polymer modified hydraulic binder, shrinkage controlled semi-dry floor screed. Comparing to the traditional semi-dry screed, this premixed screed is the best solution for use in all instances where logistics conditions at sites are complicated. Additionally, it improves the quality, strength and drying speed of the screed over standard cement screeds.

SCOPE OF USE

weberfloor rapid could be applied internally or externally in both wet and dry areas such as Kitchen, Shower rooms, Toilets, Terraces, Service rooms, etc. for levelling differences in thicknesses from 25mm to 100 mm depending on the difference in the level and on the type of application: bonded, unbonded or floating screed (for thicknesses higher than 100 mm, please Consult weber technical department). Floor coverings such as Rubber, PVC, linoleum, textile, ceramic tile, natural stone, wood or other floor coverings, can generally be installed after 4 days only depending on the screed thickness, the moisture content and the site conditions.

DRYING TIME

Always measure the substrate moisture content before applying **weberfloor rapid**. Although the drying time of **weberfloor rapid** is fast, weber recommends to always re-measure the moisture content before installing moisture sensitive floor finishes such as Rubber, PVC, linoleum, textile, wooden floor, etc.. using a Carbide Hygrometer (Electrical hygrometers values are not reliable).

Waiting time before covering

Ceramic tiles	24 hours
Natural stones	48 hours
Self-leveling application	2 to 4 days (depending on the moisture content)
Resilient floors	4 days

CHARACTERISTICS

Form	Powder
Color	Grey
Mix Density	1.95+/- 0.1 kg/LT
Grain size	Up to 5 mm
Mixing water	1.7 Liter per 25 kg bag
Mixing time	5-10 minutes (depending on type of mixing)
Working time	60 minutes @ 20°C
Application temperature	+5°C to +35°C



PACKAGING

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

Bed thickness	Bonded: 25mm-->100 mm Unbonded : 50mm-->100 mm Floating:65mm-->100 mm
Light foot traffic	12-24 hours (depending on site conditions)
Flexural strength EN 13813	1 day: 3 MPa 7 days: 5 MPa 28 days: 6 MPa
Compressive strength EN 13813	1 day: 8 MPa 7 days: 20 MPa 28 days > 30 MPa
Residual Moisture (carbide hygrometer)	2 days < 3.5 % (depending on site conditions) 4 days < 2 %
Resistance to alkalis	Excellent
Cleaning	Clean tools, equipment etc. using water

APPLICABLE STANDARDS

EN 13892-1; EN 13813; BS 8204 part 1.

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

For bonded construction:

The substrate should be at least 3 months old, clean and free from all dust and contamination, structurally stable and having a moisture content < 4%, it has also to be sound and coarse textured, ideally, mechanically prepared, using a

grinding, shot blasting or even scarifying machine.
A slurry coat of weberad 225 MB and cement should be used as a bonding agent and as an intermediate coat between the substrate and **weberfloor rapid** to improve the bonding.

Slurry mix design:

Slurry	Ratio
Grey Cement	3
Aggregates 2 to 4 mm	1
Water	1
weberad 225 MB or **weberad 240 LTX**	1

** The above mentioned mix design always depends on the cement and aggregates used.*

Moreover, when used on floors subject to damp where the moisture content is < 5%, a suitable damp proof membrane or a vapor barrier such as **weberfloor VB**, must be applied on the substrate before **weberfloor Rapid** application

For unbonded and floating screed:
Lay down a polyethylene or PVC sheets (200 to 250 microns) to separate the concrete from the screed layer in case of unbonded screed or to separate the thermal or sound insulation in case of floating screed. Overlap the polyethylene sheets by at least 20 cm and tape them together.Make sure that the Polyethylene sheets ride over the corners and the vertical edges surrounding the screed to cover them for around 20cm. Thereafter, Fix the soft strips (use edging foam or polystyrene from 5 to 10mm thickness) as a separation between the walls / columns and the screed.
In case of unbonded screed, the thickness should not be less than 50 mm, however,in case of floating screed should not be less than 65 mm.in both cases there is a high risk of screed curling in this case to minimize the curling,the screed should be either reinforced across the joints with fiber mesh or applied at a higher thickness, up to 100 mm.Lay **weberfloor mesh**, a 10x10 mm alkali resistant fibre mesh,overlapped for around 30cm or 100x100 mm galvanized steel mesh instead. The mesh should be fixed in a way to persist floating on the 1/3 to 1/2 of the screed layer thickness.

PRODUCT PREPARATION
weberfloor rapid can be mix using a drill and paddle, a concrete mixer, a screw mixer or drum mixer however, the fastest and most practical and productive way to mix this product, is using a screed conveyor (pressure pump).
Note: weber does not recommend to mix this product by hand.

weberfloor rapid is an easy to use product and quite simple to blend, simply mix it with 1.7 Liter of clean water with 25 kg bag (or 3.4 Liter with 50 kg). Mix the product for 5-10 minutes, thus, the product will be ready for application.

Always use the minimum amount of water to produce a suitable mix, additionally mix enough quantity of material that can be placed within a limited time, depending on the application progress.
The applied screed must be protected from air currents within the first 12 hours. If necessary, doorways and windows should be closed. Subsequently, it is very important to ensure sufficient ventilation in the application area, allowing the screed to dry out normally.

Ideal application temperature is between +5ºC and + 35ºC.
If the application temperature is higher than 35 ºC, make sure to use ice to cool down the water.

PRODUCT APPLICATION
- Limit the work areas into manageable sections for maximum 50 m2.
- when applying in warmer temperatures, reduce the width of the work area (or use cold water).
- Pour the mixed material onto the prepared surface, then immediately spread it with a large metal trowel to aid in levelling the surface.
- **weberfloor rapid** can be pumped from 25 mm up to 100mm, however in case of unbonded and floating application, a minimum thickness of screed should be respected (Consult weber technical department for more details).
- Spread the screed with a shovel, trowel or screeding bar; extra materials should be compacted and scraped off with a levelling board. For a smooth finishing, it is recommended to use a concrete power floater (Screed helicopter), a blade power float or a power trowel after at least 24 hours from casting the screed.
  The applied screed should be covered immediately with a polythene sheet to avoid rapid dehydration and left covered for 2 days minimum.
- The Ideal application temperature is between +5°C and + 35°C.

PRECAUTIONS
- In order to facilitate the application of **weberfloor rapid**, it is preferable to subdivide the total area of application in smaller ones not exceeding 50 m² each.
- All existing movement/expansion joints in the base should be maintained and copied through the **weberfloor rapid** application.
- It is advisable to leave control joints each 50 m^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, after ,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. The applied materials should be protected from sun light.
- After usage, clean tools with water. It is recommended to use protective gloves and in case of contact with the eyes, clean thoroughly with water.
- Respect the mix water dosage as per the manufacture instructions (1.7 Liter of clean water with 25 kg bag).
- Do not add more water to a mix which has already begun to set.
- Do not cure weberfloor Rapid with water, however, it is necessary to cover the applied product for the next 3 days with a plastic sheet.
- Always measure the moisture content prior to the application of any moisture sensitive products.

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

CONSUMPTION

18-20 kg/m² per 1 cm thickness.

STORAGE

12 months after manufacturing date in original and non-open packaging, under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

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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