

Fast drying (4 days), shrinkage controlled, hydraulic binder

PRODUCT

weberfloor 620 PMB is a proprietary polymer modified hydraulic binder which when mixed with sand will give a rapid drying, shrinkage controlled semi-dry floor screed. The resulting screed is ideal for use in all instances in place of traditional semidry screed, i.e. unbonded, bonded or floating constructions; standard or heated screeds.

weberfloor 620 PMB improves the quality, strength and drying speed of the screed over standard cement screeds.

SCOPE OF USE

Particularly recommended for floor screed with pedestrian traffic: hotel, housing, hospitals, offices, etc....

Form	Powder
Colour	Grey
Cleaning	Clean tools, equipment etc. using warm water
Mix proportions	Mix 20 kg Binder with approx. 160 kg sand (dry weight) and 10-12L water.
Working time	60 minutes @ 20°C
Application temperature	+5°C to +35°C
Bed thickness	Bonded >25mm Unbonded >50mm Floating >65mm
Time to traffic	Light foot traffic after 12 hrs
Compressive strength 1 day	8 MPa
Compressive strength 7 days	20 MPa
Compressive strength 28 days	30 MPa
Flexural strength at 28 days	6 MPa
Shrinkage 28 days	< 0.5 mm/m
Resistance to Alkalies solvents	Excellent

* All the above mentioned characteristics depends on the mix proportions and the quality of aggregates used.

APPLICABLE STANDARDS

BS 8204 Part 1.

DRYING TIME

Always measure moisture content of the screed before installing sensitive floor finishes. If the average moisture content of the floor is $\leq 2\%$ with no single value $>2.5\%$, you can fix the covering (Unless otherwise specified by the covering supplier or the project's specs).



PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
20 kg	20 kg	20 kg	20 kg	-	20 kg	20 kg	20 kg

Waiting time before covering:	
Tiles	24 hours
Stones	2 days
Resilient and wooden floor	4 days
Self-leveling application	3 to 4 days

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

When used on ground floors or floors subject to rising damp, a suitable damp proof membrane or vapor barrier, such as, **weberfloor VB**, must be used. (Seek for weber technical support advice).

In case of bonded screed

The surface must have an average "surface tensile adhesion strength" greater than 1 MPa. Moreover, it should have CSP (concrete surface profile) of 6 – 8.

- 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.

- Soft strips (5 to 10mm thicknesses) to be fixed as a separation between the walls/Columns.

Before casting the screed, it is highly advisable to use a vacuum cleaner to get rid of dust.

A bonding slurry must be applied before proceeding **weberfloor 620 PMB** application. The slurry usage will ensure excellent bonding between the semi dry screed and the substrate. Once the slurry becomes tacky, start pouring **weberfloor 620 PMB**.

Slurry mix design:

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

In case of un-bonded and floating screed

- Start by fixing soft strips (5 to 10mm thicknesses) as a separation between the walls / columns and the screed.
 - Lay down thick Polyethylene sheets (200 to 250 micron) on the substrate.
 - Make sure that the Polyethylene sheets overlaps for around 30cm.
 - Make sure that the Polyethylene sheets ride over the corners and the vertical edges surrounding the screed to cover them for around 20cm.
- Lay a 10x10 mm alkali resistant fiber mesh or 100x100 mm galvanized steel mesh overlapped for around 30 cm.

PRODUCT PREPARATION

Mix **weberfloor 620 PMB** using a drill and paddle, a normal concrete mixer, a screw mixer or a drum mixer.

Warning: Do not mix by hand and always use good quality well graded sand (0 to 5 mm).

	Kg	Cubic meter
Rough substrate	20kg weberfloor 620 PMB 160kg sand (Dry weight) 11 Liters of water	Approx. 220-250 kg weberfloor 620 PMB 1900 kg/m ³ sand (dry weight) 110 Liters of water
Smooth substrate	20 kg weberfloor 620 PMB 120 kg sand (Dry weight) 11 Liters of water	Approx. 280-300 kg weberfloor 620 PMB 1850 kg/m ³ sand (dry weight) 110 Liters of water

Add **weberfloor 620 PMB** to the sand then add sufficient water to produce an earth dry mix with no bleed.

Always use the minimum amount of water to produce a suitable mix. The amount of added water will vary considerably depending on sand moisture content and grading. If the sand is damp, it may be necessary to add no additional water to create a suitable mix.

Mix enough amount of material that can be placed within one hour. Apply first the 1/3 of the total screed layer thickness, then lay the mesh on the casted area.

Poor the remaining screed to reach the desired level. Thereafter, compact the superficial layer to form a dense smooth finish.

The screed must be protected from climate factors within the first 12 hours, if necessary doorways and windows should be taped up with polythene.

Subsequently, ensure that the room has sufficient ventilation to allow the screed to dry out.

weberfloor 620 PMB will accept foot traffic after 12 - 24 hours depending on site conditions. Floor coverings can generally be installed after around 4 days, depending on the screed thickness, the site conditions, and the moisture content.

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

CONSUMPTION

	Approx. product consumption	Approx. sand consumption
Rough substrate	2.4 kg/m ² /cm	19.5 kg/m ² /cm
Smooth substrate	3.1 kg/m ² /cm	18.8 kg/m ² /cm

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.

SAFETY PRECAUTIONS

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable to do the application a well ventilated area, to wear protective gear for hands, eyes and respiratory system and to avoid dust inhaling. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting. In both cases seek medical attention. The product is non-flammable.

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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