



weberfloor HD

weberfloor HD is Cement-based rapid-drying mortar for industrial and commercial applications. And is the heavy duty self-leveling mortar for industrial floor repair and new construction, designed to be final layer, and can be used as leveling layer before coating with other coating material. Application thickness is between 5 – 15 mm.



Easy application by hand or continuous pumping mixer



Rapid drying and fast setting



Low shrinkage



High surface strength



Low emission, non toxic



Can be used as a finish layer



Can be coated to improve surface property by demand



WORKING INSTRUCTION:

Light ventilation in the working area is necessary but windows and doors openings must be closed sufficiently to avoid draughts during and for 3 days after the application. Relative humidity of substrate must be < 6% .

Packing 25 kg./bag

SUBSTRATE PREPARATION:

- Leave new screed or concrete slab for at least 28 days for complete chemical curing in order to avoid cracks.
- Clean the entire surface by using Blastrac machine or other appropriate method.
- Torch any oil residues; do not clean with wet method. The drier the better.
- Check surface strength
- Compressive strength* = 25 N/mm²
- *by using Schmidt Hammer
- Bonding strength* = 1 N/mm²
- *by using Pull-off tester



Schmidt Hammer



Pull-off tester

- Then priming the area with weberfloor 471 6
- **If detected values are less than recommendation, using epoxy primer to improve bonding.
- Fix any uneven areas, holes, with repair mortar or use weberfloor HD mixing with washed sand.
- In case of the hole is deeper than 10 cm, use washed gravel size 16 – 32 mm fill in the hole and then fill up with weberfloor HD
- Cut cracks into V shape and cut across at every 15 – 20 cm. to put in reinforced steel plate. Fill up with epoxy and sprinkle sand size 0.8 – 1.8 mm on top. Sprinkle sand size 0.8 – 1.8 mm on top.



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PREPARATION AND PRIMING

- Prime the area with 2 coats of weberfloor 471 6 diluted with water 1 : 3. Waiting 30 – 60 minutes between coats to let the primer dries.

*In case of high absorption, prime an extra coat with 1 : 5 dilution of weberfloor 471 6 : water before normal priming process.

- When weberprim 471 6 bonding primer has dried colorless, weberfloor HD can be poured on top of the area. Maximum waiting time between priming and coating is 48 hours.

- If there is moisture rising from the substrate, either apply waterproof layer or use epoxy primer to protect the moisture.



MIXING

Manual mixer:

- Pour 5-5.25 L. of water in mixing container and then gradually add 1 bag (25 kg) of weberfloor HD.

- Mixing with slow speed mixer (connected to a proper mixing head) for 2 – 3 minutes until obtaining homogeneous lump-free paste.

- Stand the mixture for 1 minute for chemical curing and mix thoroughly again before using

- The container should be big enough for mixing 2 – 3 bags at the same time

Continuous mixer:

- Adjust the amount of water in according with the mixing ratio. Check the flow by using flow ring and measuring plate, to get spreading dimension of 240 – 260 mm.



APPLICATION

- Leveling requirement should be assessed prior to application.

Required heights of finished floor should be marked. Existing expansion joints must be incorporated.

- Divide the area into sections by using self-adhesion blocking strip. sections, with maximum 5 m. wide and 12 – 15 m. long.

- Each new section is placed next to prior section as quickly as possible so that the compound can flow together.

- Then using spatulas to spread the product through the area with the use of spike rollers in order to avoid bubbles.

- Avoid draughts and direct sunlight after finish.

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STORAGE AND SHELF LIFE

Store in dry conditions and closed bag provides 6 months shelf life. Longer storage time may have an adverse impact of the leveling property.

PRODUCT SPECIFICATION

- Consumption 1.7 kg./m²/mm.
- Appropriate thickness 5 – 15 mm. (Recommended thickness 6 – 8 mm.)
- Application temperature +10°C - +35°C

SETTING TIMES

- Before foot traffic 1 – 2 hours.
- Before light traffic 24 hours.
- Before common traffic 7 day
- Water for mixing ratio
Approx 5 - 5.25 L. per 25 kg bag
(20-21 %) Water addition
- Flexural strength F7
- Shrinkage < 0.04%
- Flow rate according to
Weber standard 240 – 260 mm, ring: 68/H 35 mm
- Pot life 20-30 minutes

Compressive strength, EN 1015-11 (MPa.)	
- At 1 Day	>10
- At 3 Days	>15
- At 7 Days	>20
- At 28 Days	>30
Flexural strength, EN 1015-11 (MPa.)	
- At 1 Day	>2.5
- At 3 Days	>3
- At 7 Days	>3.5
- At 28 Days	>7.0
Setting Time, Minute	
- Initial setting time	45
- Final setting time	106
- Potlife	30
Flow ring, mm.	
- T=0	240
- T=10	240
Shrinkage (Length change - mm/m, %)	
- At 1 Day	-0.03%
- At 7 Day	-0.04%
- At 14 Day	-0.05%
- At 28 Day	-0.05%