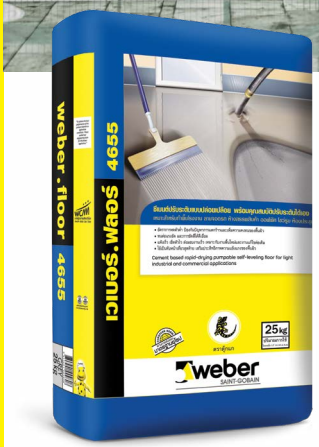
Cement-based rapid-drying pumpable self-leveling floor for industrial and commercial applications



weberfloor 4655

- Easy application by hand or continuous pumping mixer
- High surface strength
- Can be coated to improve surface property by demand
- Rapid drying and fast setting
- Low emission, non toxic
- Low shrinkage
- Can be used as a finish layer

weberfloor 4655 is cement-based pump-able self-leveling floor for industrial and commercial applications. It can be mixed by hand or continuous pumping mixer. **weberfloor 4655** is designed to be final layer, and also can be used as leveling layer before coating with epoxy, polyurethane, or other coating material in order to suit the demand. Application thickness is between 4 – 15 mm.

- Compressive strength* = 25 N/mm²
*by using Schmidt Hammer
- Bonding strength* = 1 N/mm²
*by using Pull-off tester

Schmidt Hammer

Pull-off tester

• APPLICATION AREAS

With its rapid drying property, **weberfloor 4655** is then suitable for renovation of floors with time constrain. It can be coated with **weberfloor 4720**, wax, epoxy, or polyurethane; upon application demand of the floor. **weberfloor 4655** is ideal for renovation and also for new construction of

- Industrial areas
- Cap parks
- Department stores
- Warehouses
- Showrooms
- Offices
- Meeting rooms

• WORKING INSTRUCTIONS

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%.

• SUBSTRATE PREPARATION

- Leave new screed 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

Then priming the area with **weberfloor 4716**

***If detected values are less than recommendation, using epoxy primer to improve bonding.*

- Fix any uneven areas, holes, with repair mortar or use **weberfloor 4655** 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 4655**.
- 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.

Preparation and priming

- Prime the area with 2 coats of **weberfloor 4716** 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 4716** : water before normal priming process.
- When **weberprim 4716** bonding primer has dried colorless, **weberfloor 4655** 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.

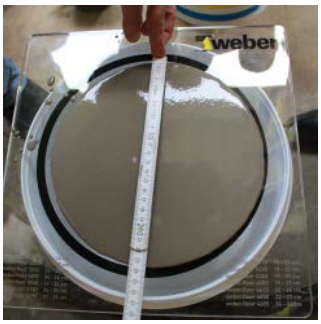
MIXING

Mix manually:

- Pour 5.25 L of water in mixing container and then gradually add 1 bag (25 kg) of **weberfloor 4655**.
- 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.



- The finished mixture is then conveyed to the application area through hose.

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.
- **weberfloor 4655** is preferable pumped onto primed surface in sections, with maximum 50 – 70 cm 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.

SHELF LIFE AND STORAGE

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

PACKAGE:

25 kg bag

ENVIRONMENTAL ADVICE

Information for environment GISCODE ZP 1;WGK:1;BetrischV: Not applicable

The product hardens 1-3 hours after adding water and can then be disposed as of building rubble.

SAFETY INSTRUCTION

• Mineral mortars have an alkaline reaction with water.

• Avoid contact with eyes and skin. Wear protective goggles/ face protection/ gloves.

• If contact with eyes, rinse immediately with plenty of water and seek medical advice.

PRODUCT SPECIFICATION

Properties	weberfloor 4655
Consumption	1.7 kg./m²/mm.
Appropriate thickness	4 – 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

**High humidity environment and moisture in the substrate can prolong the setting times*

USE	
Internal use	
Water for mixing ratio	Approx 5.25 – 5.27 L per 25 kg bag (21 – 33%) Water addition
Compressive strength	C30
Flexural strength	F7
Shrinkage	< 0.04%
Flow rate according to Weber standard	240 – 260 mm, ring: 68/H 35 mm
Reaction to fire	A
Aggregate size	1 mm largest grain
Pot life	15 – 20 minutes