A rapid hardening, pumpable levelling compound

weberfloor 4600 industry base

Uses

As a base layer for weberfloor 4610 when

- Levelling uneven concrete substrates
- Spreading loads on weak concrete substrates

Constraints
Not to be used on floors with extra high loads. Use **weberfloor 4602 industry base extra**.

About this product

weberfloor 4600 industry base is a rapid hardening, pump applied industrial flooring system. The material is supplied as dry powder based on special cement, additional binder and additive. It is supplied as a preblended dry powder designed for application at a thicknesses of between 5 mm and 30 mm in one operation.

weberfloor 4600 is intended as a levelling layer and substrate to **weberfloor 4610**, **weberfloor 4630**, **weberfloor 4650** and **weberfloor 4655** on uneven concrete substrates. The material is also intended for spreading the load on weak concrete substrates. On floors with extra high loads **weberfloor 4602** is recommended.

Features and benefits

- Low alkalinity
- Casein free
- Low natural emissions
- Pumpable – rapid and ergonomic application
- Rapid hardening – enables quick installation

Technical data

Waiting time between layers	8-12 hour depending on layer thickness and ambient temperature
Maximum thickness	30 mm
Minimum thickness	5 mm
Recommended layer thickness	8 – 10 mm
Water demand	4.25 – 4.50 litres per 25 kg bag (17 – 18%)
Compressive strength class, EN 13813	C20
Compressive strength (28 day), EN 13892-2	Mean value 26.5 N/mm²
Flexural strength class, EN 13813	F6
Flexural strength (28 day), EN 13892-2	Mean value 8 N/mm²
Shrinkage (28 days), EN 13454-2	< 0.70 mm/m
Flow rate according to Weber standard	200-215mm
Flow rate according to flow ring 50 x 22 mm	130-140mm
Hardening time (before foot traffic)	2 – 4 hours
Transverse tensile strength	>1.5 MPa 28 days
Physical requirements (reaction to fire)	A2fl -s1
Density (loose bulk density)	1700 kg/m³
pH (of cured material)	approx. 11
Pot life	15 – 20 minutes (after adding water)
Material consumption	1mm = 1.7 kg, 5mm = 8.5 kg, 10mm = 17.0 kg

flooring solutions

weberfloor 4600 industry base

Preparation

The substrate should be clean, free from dust, grease and other impurities that might prevent adhesion. Holes and leaks in the substrate should be sealed. Floor drains etc. should be protected with lids and separated with stop ends. Large irregularities (>30 mm) should be filled in. The infil should be mechanically prepared before the next application and the surface vacuum cleaned and primed with **weberfloor 4716 primer** according to the instructions on the data sheet.

After application and whilst the primer is still fresh, it should be lightly brushed to ensure a complete uniform film has been applied. The function of the primer is to improve adhesion to the substrate, to prevent air bubbles and to prevent de-watering of the floor compound before hardening.

Mixing

weberfloor 4600 should be applied using a mixer pump approved by **Weber**.

The material is mixed with 17 – 18% water, which corresponds to approx. 4.25 – 4.5 litres per 25 kg bag. Do not use excess water.

While mixing, the water content should be checked continuously by the flow ring test to ensure that the material is correctly mixed and free from separation.

It is important to add only the recommended amount of water as excess water will reduce strength, increase shrinkage and encourage segregation. Conversely reduced water content increases viscosity.

The temperature of the mix should ideally be between +15°C and +20°C.

Application

Light ventilation in the work area is necessary but windows and openings must be closed sufficiently to avoid draughts during and after application. Indoor and floor temperature should exceed +10°C during and after application and for one week after that. The relativehumidity of the concrete floor must not exceed 95%. Dehumidifiers must not be used for the first 72 hours.

Substrate

weberfloor 4600 industry base is mainly recommended for concrete substrates. The surface tensile strength of the substrate should be minimum 1.0 N/mm². Weak and non-rigid substrates, such as asphalt floors, must be removed. Shrinkage movement in newly cast concrete should have finished, otherwise reflective crack formation might appear.

Application

The maximum width of the pumpable area varies from 6 – 8 metres depending on the pump capacity and application thickness. Wider areas can be temporarily divided with stop-ends. Pumping is carried out in sections so that the new section is pumped as quickly as possible to maintain a wet edge. A wide spatula or spiked roller should be used to assist the self levelling process.

Drying time

weberfloor 4600 industry base can receive foot traffic after a drying time of 2 – 4 hours at an ambient temperature of +20°C. The floor can be covered with **weberfloor 4610 industry top** after 8-12 hours depending on the layer thickness and drying conditions. High humidity of the substrate and poor drying conditions prolong the setting time.

Cleaning

Equipment and tools can be cleaned with water directly after use. Hardened material must be removed mechanically.

Packaging

weberfloor 4600 industry base is packed in 25 kg bags on a plastic-wrapped pallet.

Storage and shelf life

When stored unopened in a cool, dry place at temperatures above 5°C, shelf life is 6 months from date of maufacture.

Health and safety

Contains cement (Contains chromium (VI). May produce an allergic reaction). Harmful by inhalation. Irritating to eyes and skin. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection.

For further information, please request the Material Safety Data Sheet for this product.

Technical services

Weber's Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

Technical helpline
Tel: **08703 330 070**
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Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. Please contact the relevant Customer Services Team below for all product orders and enquiries.

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