

**A pumpable, rapid hardening, self-levelling screed for use as a surface layer on industrial flooring**

# weberfloor 4610 industry top



## About this product

**weberfloor 4610 industry top** is a pumpable, rapid hardening, self-levelling screed for use as a surface layer on industrial flooring. The material is especially suitable where renovation time is limited. **weberfloor 4610** is ready for normal traffic loading without further finishing, but may be coated with a suitable resin should this be required.

**weberfloor 4610** is designed for use in industrial environments on both new floors and renovation projects. It is used for levelling and smoothing of floors subject to heavy traffic and abrasion, such as factories, production areas and warehouses. **weberfloor 4610** is used as a wearing surface applied directly to the substrate or on top of **weberfloor 4360 base flow rapid**.

## Technical data

Application temperature	+10 to +30°C
Maximum thickness	15 mm
Minimum thickness	4 mm
Recommended layer thickness	6 – 8 mm
Water demand	5.25 litres per 25 kg bag (21 %)
Compressive strength class	C35
Compressive strength (28 day)	Mean value 40 N/mm <sup>2</sup>
Flexural strength class	F10
Flexural strength (28 day)	Mean value 12 N/mm <sup>2</sup>
Shrinkage (28 days)	< 0.7 mm/m
Flow rate according to Weber standard	230 – 250 mm
Flow rate according to flow ring 50 x 22 mm	155 – 160 mm
Hardening time (before foot traffic)	2 – 4 hours
Hardening time (before light traffic)	24 hours
Hardening time (before full traffic)	Approx. 1 week
Transverse tensile strength	> 3.0 N/mm <sup>2</sup> after 28 days
Physical requirements (reaction to fire)	A2fl -s1
Density (loose bulk density)	1700 kg/m <sup>3</sup>
pH (of cured material)	approx. 11
Pot life	15-20 minutes (after adding water)
Wear resistance (Steel-wheel, class)	Strength properties after storage in regulated conditions +23°C and 50% RH with 21% water. Wear resistance – BCA class AR 0.5
Wear resistance (RW (defined) class)	RWA 100
Material consumption	1mm = 1.7 kg, 5mm = 8.5 kg, 10mm = 17.0 kg

## Uses

- For intensively trafficked industrial floors with medium or heavy rolling loading where exceptional flatness is required.
- In industries, warehouses and locations with high demands for abrasion resistance.
- For use on new floors and renovation projects

## Features and benefits

- ▲ Pumpable – rapid and ergonomical application
- ▲ Rapid hardening – enables quick installation
- ▲ Super flat floors – minimises wear and enables high storing shelves
- ▲ Very high durability towards mechanical stress – long lifetime
- ▲ Low alkalinity
- ▲ Casein free
- ▲ Low natural emissions

## Durability

**weberfloor 4610** has similar chemical resistance to concrete. Floors which are subject to constant loading in the form of common chemicals, oils, cutting or cleaning fluids etc, require surface protection. Examples of industries where this is necessary are the food industry, abattoirs, dairies, fish processing and similar.

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## Preparation

The substrate should be clean, free from dust, grease or 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 (>15 mm) should be filled in. The infill should be left to harden before the next application.

The substrate should be mechanically prepared, 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 dewatering of the floor compound before hardening.

## Mixing

**weberfloor 4610** should be applied using a mixer pump approved by **Weber**. The material is mixed with 21% water, which corresponds to 5.25 litres per 25 kg bag. Do not use excess water.

While mixing, the water content should be checked continuously by the flow ring test. Also ensure that the material is correctly mixed and free from separation. It is important to add the stipulated 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 must exceed +10°C during and after application and one week after that. The relative humidity of the concrete floor must not exceed 95%. Dehumidifiers must not be used for the first 72 hours.

### Substrate

**weberfloor 4610 industry top** is designed primarily for use on concrete substrates. Surface tensile strength of the substrate should be a minimum 1.5 N/mm<sup>2</sup>. Any shrinking in newly cast concrete should have ceased otherwise reflective cracking may occur. Weaker or uneven substrates should be smoothed using **weberfloor 4600 industry base**. Weak (less than 1.0 N/mm<sup>2</sup>) or softer substrates, such as asphalt flooring must be removed. During application the temperature of the substrate should be above +10°C.

### 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 a new section is pumped as quickly as possible in order to maintain a wet edge. A wide spatula or spiked roller should be used to assist the self levelling process.

## Drying time

The screed can receive foot traffic after a drying time of 2 – 4 hours at an ambient temperature of +20°C. It will receive forklift wheeled traffic after 24 hours and full traffic after 7 days. 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 4610 industry top** 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 12 months from date of manufacture.

## 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  
e-mail [technical@netweber.co.uk](mailto:technical@netweber.co.uk)

### 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.

#### UK and Ireland

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Fax: 0800 014 2995  
e-mail [customerservice@netweber.co.uk](mailto:customerservice@netweber.co.uk)

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