

*A fast drying, self-smoothing,
industrial floor screed and resin
base (cover after 1 day)*

weberfloor 4655 industry flow rapid



About this product

weberfloor 4655 industry flow rapid is a cement-based pumpable self-levelling screed for use as a surface layer on industrial flooring applications. It is supplied as a pre-blended, dry powder for application of a thickness of between 4 – 15 mm

weberfloor 4655 industry flow rapid is designed as a rapid drying, levelling layer which is also suitable for the application of epoxy and polyurethane coatings in industrial applications on both new and old concrete for new and refurbishment projects. It can be used to level and smooth a wide range of substrates, including in-situ and pre-cast concrete.

Technical data

Maximum thickness	15 mm
Minimum thickness	4 mm
Recommended layer thickness	6 – 8 mm
Water demand	5.25 litres per 25 kg (21 %)
Compressive strength class	C25
Compressive strength (28 day)	Mean value 32 N/mm ²
Flexural strength class	F7
Flexural strength (28 day)	Mean value 9 N/mm ²
Shrinkage (28 days)	< 0.4 mm/m
Flow rate according to (Weber standard)	240 – 255 mm
Flow rate according to (flow ring 50 x 22 mm)	155-165 mm
Hardening time (before foot traffic)	1 – 2 hours
Transverse tensile strength	>1.0 MPa after 28 days
Physical requirements (reaction to fire)	A2fl -s1
Density (loose bulk density)	1600 kg/m ³
pH (of cured material)	approx. 11
Pot life	15 – 20 minutes (after adding water)
Material consumption,	1mm = 1.6 kg, 5mm = 8.0 kg, 10mm = 16.0 kg

Uses

- Industrial floor applications
- New and refurbishment projects
- Levels and smooths in-situ and precast concrete
- Can be used on a wide range of substrates including new and old concrete

Features and benefits

- ▲ Pumpable – rapid and ergonomic application
- ▲ Rapid hardening – enables quick installation
- ▲ Flat floors – minimises wear
- ▲ High durability towards mechanical stress – long lifetime
- ▲ Resin base – adaptable to different environments
- ▲ Low alkalinity
- ▲ Casein free
- ▲ Low natural emissions

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Preparation

Substrate

weberfloor 4655 industry flow rapid is designed primarily for use on concrete substrates. If the substrate is suitably dry, the resin finish can be laid after 24 hours (for a 10 mm layer in good drying conditions). The substrate should have a surface tensile strength of at least 1.5 N/mm².

Preparation and priming

The surface to be treated must be hard, sound and free from surface contamination. Laitance, old coatings and contaminants should be removed mechanically, by enclosed shot blasting or scarification. All dust and debris should be vacuumed from the surface. Shrinkage in newly cast concrete should have stopped, as reflective cracking could otherwise occur.

weberfloor 4716 primer should be applied to the prepared surface using a soft brush or a primer pump, avoiding ponding, and allowed to become touch dry (3 – 4 hours under good conditions or overnight dependent upon conditions).

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 sub-floor, to prevent air bubbles and to prevent de-watering of the floor compound before hardening.

Mixing

weberfloor 4655 industry flow rapid should be applied using a mixer pump approved by **Weber**.

The material is mixed with 21% water, which corresponds to approx. 5.25 litres per 25 kg bag. Do not use excess water, because the strength of the underlayment will be reduced. Ensure that the material is correctly mixed and free from separation. The temperature of the mix should ideally be between +15°C and +20°C.

For hand application, mix the material thoroughly for 1 – 2 minutes using a powerful mixer tool.

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 for 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.

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 1 – 2 hours at an ambient temperature of +20°C. The floor covering can be installed after 24 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 4655 industry flow rapid 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

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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