

A through coloured, pump applied self levelling floor screed

weber.floor 4650 design colour



About this product

weber.floor 4650 design colour is a through-coloured, cement-based floor screed, containing special cement, sand and additional binders. The material is a pumpable, rapid set and self levelling compound. The range consists of 10 colours with alkaline durable pigments; white, off-white, light grey, warm grey, dark grey, light yellow, beige, blue, terracotta and black.

weber.floor 4650 design colour can be used in commercial and retail environments, store rooms and industry with light truckload. The floor can be used to contribute to the aesthetic design of the room; however the method for after-treatment and floor maintenance must be adapted to the particular conditions of use.

Technical data

Application temperature	+10°C to +25°C Optimal +15°C to +20°C
Maximum thickness	15 mm
Minimum thickness	4 mm
Recommended layer thickness	6 – 8 mm
Water demand	5.0 litres/25 kg (20%)
Compressive strength class	C25
Flexural strength class	F7
Shrinkage (28 days)	< 0.07%
Flow rate according to (Weber standard 68 x 35 ring)	230 – 245 mm
Hardening time (before foot traffic)	24 hours
Hardening time (before common traffic)	Approx. 1 week
Pot life	15 – 20 minutes (after adding water)
Wear resistance (steel wheel class)	AR1
Material consumption	1 mm = 1.7 kg/m ² 5 mm = 8.5 kg/m ² 10 mm = 17.0 kg/m ²

Uses

For levelling:

- Concrete

Constraints

Not to be used where movement is expected (for underfloor heating refer to **Weber** for advice).

Not to be used without a sealer.

Do not use:

- On permanently damp floors or floors with rising damp
- On friable or unstable floors
- In industrial areas
- On external floors

Features and benefits

- ▲ Rapid set – foot traffic after 3-5 hours and light traffic after 24 hours
- ▲ Durable and hard wearing
- ▲ Excellent spreading and smoothing characteristics
- ▲ Available in a range of 10 colours

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Preparation

Substrate

Recommended for use on concrete substrates. The surface strength of the substrate must be greater than 1.5 N/mm²

Preparation and priming

The substrate should be clean, free from dust, cement, grease or other impurities that may prevent adhesion.

The substrate should be vacuum cleaned, prepared and primed twice using **weber.floor 4716**. The first priming should be diluted 1:5, the second 1:3 (on **weber.floor 4600 industry base**, 1:10, 1:3). The primer should be dry and have formed a film before laying with **weber.floor 4650 design colour**. The temperature of the substrate during and for 48 hours following application should exceed +10°C.

Mixing

weber.floor 4650 design colour should be applied using a mixer pump approved by **Weber**.

The material is mixed with 20% water, which corresponds to 5.0 litres per 25 kg bag. Whilst mixing, the water content should be checked continuously by the flow ring test (size 68 mm x 35 mm ring).

Do not use excessive water as this will reduce strength, increase shrinkage and encourage segregation and colour variation. Conversely reduced water content increases viscosity.

Also ensure that the material is correctly mixed and free from separation and lumps of powder. 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.

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. Colour and appearance will be affected by the choice of finishing tool.

The material can be laid in thicknesses of 4 – 15 mm, with the normal layer thickness being 6 – 8mm. Large cavities should always be levelled using **weber.floor 4600** or **weber.floor 4602**.

Caution

Colour variations in the finished surface can occur due to a number of factors such as:

- The product is formulated from cementitious binders with mineral pigments and colour variations can result due to differing ambient conditions during application
- The method of installation can occasionally result in hose lines in the finished surface
- Any future repairs to the surface may result in variations in colour and texture.

Packaging

weber.floor 4650 design colour is packed in 25 kg bags on 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 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: 01525 722100
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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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