CI/SfB
Uniclass
May 2011

flooring solutions

A pump-applied fibre-reinforced levelling compound designed for application at a thickness of between 5 – 50 mm.

weber.floor 4310 fibre flow

About this product

weber.floor 4310 fibre flow is a pump-applied, fibre-modified floor screed formulated from special cements, aggregates, supplementary binders and chemical admixtures. It is supplied as a pre-blended dry powder designed for application at a thickness of between 5 – 50 mm. The product is casein-free.

weber.floor 4310 fibre flow is designed for the renovation of existing floors and floating floor construction in domestic and commercial applications. The levelled floor can be covered with ceramics, terrazzo, PVC, linoleum etc.

Technical data

Application temperature	+10°C to +25°C optimal +15°C to +20°C
Maximum thickness	50 mm
Minimum thickness	5 mm (25 mm on floating floors)
Water demand	5 litres/25 kg (20 %)
Adhesion strength (28 day)	>1.0 N/mm²
Compressive strength class	C 25
Flexural strength class	F 5
Tensile strength	>1.0 N/mm²
Shrinkage (28 days)	< 0.04 mm/m
Flow rate according to (**Weber** standard)	220 – 235 mm
Hardening time (before foot traffic)	2 – 4 hours
Hardening time (before common traffic)	Final floor covering after 1 – 3 weeks depending on the layer thickness and drying conditions.
Pot life	20 min (after adding water)
Material consumption	1.7 kg/m²/mm

Uses

For levelling:

- Concrete
- Lightweight concrete
- Wooden boards
- Under-floor heating/warming
- Existing tiles

Suitable for covering with:

- Tiling
- Carpeting
- Flexible floor coverings
- Parquet flooring

Constraints

Do not use:
on permanently damp floors or floors with rising damp;
on friable or unstable floors;
in industrial areas;
on exterior floors.

Features and benefits

- Manufactured under a BSI Quality Assurance Scheme ISO 9001
- Suitable for heated and/or wooden floors
- Fibre-modified for added durability
- Excellent spreading and smoothing characteristics
- Low alkalinity
- Casein-free
- Low emissions

FM 1209

12.310

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Preparation

Substrate
Suitable for most substrates. The surface strength of the substrate must be greater than 1N/mm².

Preparation and priming
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 and large irregularities (>30 mm) should be filled. The infil should be left to set before the next application.

The substrate should be vacuum cleaned, prepared and primed with **weber.floor 4716 primer** according to the instructions on the data sheet. Priming improves the screed's adhesion to the substrate and prevents the formation of air bubbles and de-watering of the screed. Priming also improves the flow properties of the screed. Dry and very porous substrates (cast-in-situ concrete floors) may need to be treated twice. If the screed is applied in more than one layer, each layer must be primed.

weber.floor 4945 fibre mesh must be used for floating floors.

Mixing

weber.floor 4310 fibre flow is mixed with clean water using an automatic screed mixer approved by **Weber**. For manual mixing the screed should be mixed with a suitable paddle mixer for at least 2 minutes.

The suitable water amount is 20% (of the powder's dry weight), which corresponds to 5 litres/25 kg bag. Pot-life is 20 min. from mixing with water. The temperature of the screed must be at least +10°C. The flow properties of the screed should be checked by using a **weber.floor 4931 flow ring and plate** before and regularly during pumping. Excess water causes separation and weakens the strength of the screed surface.

Application

Light ventilation in the working area is necessary but windows and door openings must be closed sufficiently to avoid draughts during and for 3 days after application. During application, and for at least 1 week afterwards, the substrate and ambient temperature should not fall below +10°C or rise above +25°C. The relative humidity of the substrate must be <95%.

To achieve the best finish, the floor area should be divided into bays of 6 to 8 metres depending on pump capacity and application thickness. **weber.floor 4965 barrier foam** should be used to form bays and stop ends. Pumping is carried out in sections so that a new section is pumped as quickly as possible and to maintain a wet edge. A wide spatula or spike roller should be used to assist the self-levelling process.

Overlay
weber.floor 4310 fibre flow is compatible with most common floor finishes and adhesives.

weber.floor 4310 fibre flow should not be painted or used without a floor finish.

Drying time
The screed can receive foot traffic after a drying time of 2 – 4 hours at an ambient temperature of +20°C. If necessary, the surface can be ground or smoothed over with **weber.floor 4031 super flow** after 2 days following application. Floor covering can be installed after 1 – 3 weeks depending on layer thickness and drying conditions.

High humidity of the substrate and poor drying conditions prolong the setting time.

Packaging

weber.floor 4310 fibre flow is packed in 25 kg polythene-lined paper sacks.

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.

Poor storage conditions may have an adverse impact on the levelling properties.

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
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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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