

weberfloor 4310 fibre flow

Self-smoothing base & renovation screed

- * Domestic & Commercial areas
- * Fibre reinforced for use on underfloor heating and insulation
- * Ideal for receiving tiles or Weber thin topping screeds

About this product

weberfloor 4310 fibre flow is a pump or hand applied, self-smoothing, fibre-reinforced base or renovation screed for floors, which gives a strong base layer for receiving tiles or a thin topping screed. The product is formulated from special cements, aggregates, supplementary binders and chemical admixtures.

weberfloor 4310 fibre flow is designed for the use in residential and commercial areas allowing a much earlier overlay compared to traditional sand/ cement, concrete or anhydrite screeds. It is ideal for the renovation of existing floors and floating floor constructions.

Features and benefits

- For application depths between 5-50mm
- Pump or hand applied
- Rapid drying
- Foot traffic after 1-3 hours
- Tile after 12 hours
- Final floor covering installed after 1-3 days in normal conditions
- Fibre modified for added durability
- Low alkalinity
- Casein-free
- Low emissions

Uses

For levelling bonded, unbonded and floating substrates:

- Concrete
- Sand/ cement screeds
- Anhydrite screeds
- Wooden boards
- Under-floor heating/warming
- Insulation boards
- Existing tiles
- Bitumen

Suitable for covering with:

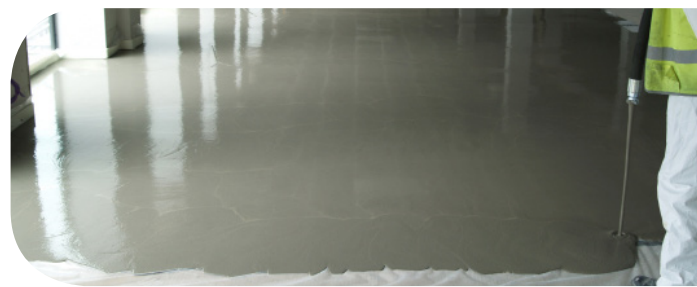
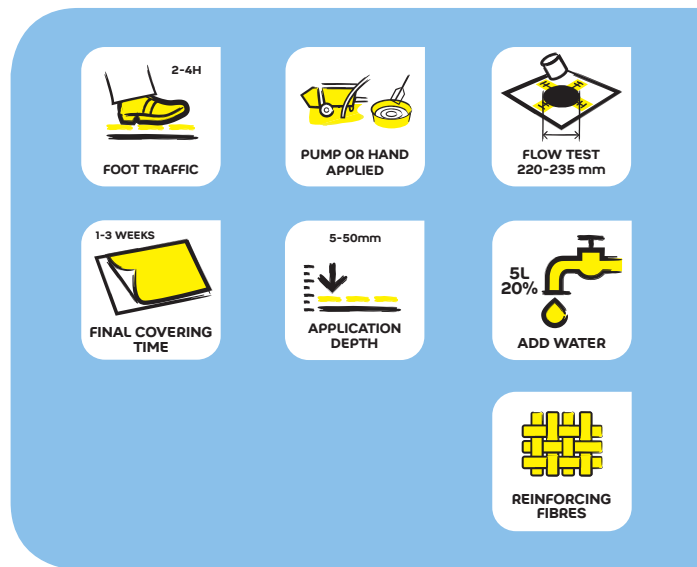
- Tiles
- Timber laminate
- Weber thin topping screeds

Constraints:

- Not a wearing screed and must be covered.

A thin layer of **weberfloor 4150 fine flow** or **weberfloor 4160 fine flow rapid** can be used on top of **weberfloor 4310 fibre flow** prior to the overlay of flexible floor coverings such as Vinyl or Linoleum.

Please see relevant datasheets for more details.



Technical data

Application temperature	+10°C to +25°C
Minimum substrate strength	1N/mm ²
Minimum thickness	5mm (25mm on floating floors)
Minimum thickness (underfloor heating)	>15mm over the heating pipes
Minimum thickness (unbonded over slip membrane)	20mm
Minimum thickness (floating floor i.e. insulation board)	25mm (with weberfloor 4945 fibre mesh)
Maximum thickness	50mm
Water demand	5 litres/ 25kg (20%)
Compressive strength	C 25
Flexural strength	F 6
Shrinkage (28 days)	< 0.05%
Weber Flow Rate	220 – 235mm
Approx. material consumption	1.7kg/ m ² / mm
Hardening time (before foot traffic)	2-4 hours in normal conditions
Hardening time (before tiling)	24 hours in normal conditions
Hardening time (before final covering)	1-3 weeks depending on layer thickness and drying conditions
Pot life	20 min (after adding water)

Preparation

The surface strength of the substrate must be greater than 1N/mm²

It is essential the substrate is suitably prepared and primed with **weberfloor 4716 primer** prior to installing the Weber floor screed.

The substrate should be clean, free from dust, grease and other impurities that might prevent adhesion.

Walls and any upstands (pillars, columns etc) should be isolated with 10 x 100mm foam.

Large irregularities in the substrate (>50m) should be filled in with a application of **weberfloor 4360 base flow rapid**, this should be allowed to harden and then primed before application of **weberfloor 4310 fibre flow** can begin.

Holes and leaks in the substrate should be sealed. The substrate should be vacuum cleaned, prepared and primed with **weberfloor 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.

Mixing

weberfloor 4310 fibre flow is mixed with clean water using an automatic screed mixer approved by **Weber**.

The material is mixed with 20% water, which corresponds to 5.0 litres per 25 kg bag. It is important to add only the specified amount of water as excess water will reduce strength, increase shrinkage and encourage segregation. Whilst 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 and lumps of powder. The flow rate should be between 220-235mm. Conversely, reduced water content increases viscosity. The temperature of the mix should ideally be between +15°C and +20°C.

For manual mixing thoroughly mix with using a slow speed electric mixer (500 rpm) for at least two minutes. Allow to stand for 2 minutes.

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. **weberfloor 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 flat spatula or wobble bar should be used to assist the self-levelling process.

In addition to solid bonded substrates **weberfloor 4310 fibre flow** can be applied to a range of other substrates including flooring grade insulation boards, timber floors, underfloor heating and bitumen. For old and established bitumen only priming is required. However, for other substrates the minimum application thicknesses stated must be observed and **weberfloor 4945 fibre mesh** may be required. For further information, please contact **Weber**.

Overlay

weberfloor 4310 fibre flow is compatible with most common tile adhesives and all Weber thin topping screeds.

In small residential areas it can be covered with directly with a flexible floor covering such as carpet but a thin layer of either **weberfloor 4150 fine flow** or **weberfloor 4160 fine flow rapid** is always recommended.

weberfloor 4310 fibre flow is ready to receive these Weber thin screeds after 4-6 hours (in normal conditions). However the drying time 1-3 weeks must be observed before the final floor covering can be applied. It 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 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

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

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.

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.

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