

Cemfloor FSC 561 Pro Top

Wearing Screed that can be used as a finished floor



- **Industrial areas**
- **Suitable for solid bonded substrates**
- **Can be left uncovered even in high traffic areas**

Cemfloor FSC 561 Pro Top is a pump truck applied, self-smoothing, very hard wearing screed, which can level industrial substrates and is ideal as a final finished layer. The product is formulated from special cements, aggregates and chemical admixtures.

Cemfloor FSC 561 Pro Top is designed for use even in heavy industrial areas. It allows full traffic and far superior performance compared to traditional screeds, concrete or anhydrite screeds.

Cemfloor FSC 561 Pro Top can also be used in commercial scenarios as a final finish where a “concrete” effect is desired.

Key Features & Benefits

- For application depths between 4-15mm
- Supplied ready to use via Pump Truck
- Foot traffic after 2-4 hours
- Light industrial traffic after 24 hours
- Full industrial traffic after 1 week
- Super flat and smooth finish minimises wear and enables high storing shelves
- Very high durability towards mechanical stress - long lifetime
- Low alkalinity
- Casein-free
- Low emissions

Uses

For levelling solid bonded substrates

- Concrete
- Sand/ cement screeds
- Anhydrite screeds

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Suitable for covering with:

- Epoxy Resin Coatings
- Polyurethane Coatings

Durability

Cemfloor FSC 561 Pro Top 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.

Preparation

The surface strength of the substrate must be greater than 1.5N/mm².

It is essential the substrate is suitably prepared and primed with weberfloor 4716 primer prior to installing the Cemfloor FSC 561 Pro Top.

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 (>15mm) should be filled in with an application of weberfloor base rapid 4360. This should be allowed to harden and then primed before application of Cemfloor FSC 561 Pro Top 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 screeds 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

Cemfloor FSC 561 Pro Top is mixed and pumped using a Cemfloor Approved Pump Truck.

The material is mixed with 20% water, which corresponds to 200 litres per 1000kg 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 230-250mm. 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 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 suitably sized bays 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 serrated spatula or spike roller should be used to assist the self-levelling process.

Overlay

Cemfloor FSC 561 Pro Top can be left uncovered as a final floor finish, even in high traffic industrial areas.

Cemfloor FSC 561 Pro Top is compatible with most epoxy and polyurethane resin coatings.

If the substrate is suitably dry Cemfloor FSC 561 Pro Top is ready to receive an resin coating after 24 hours.

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 1 days following application.

It will receive forklift wheel traffic after 24 hours and full traffic after 7 days.

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

Storage & 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 & Safety

Please see latest material safety datasheet via our website for information.

Technical Data

Application Temperature	+10°C to +25°C
Minimum substrate strength	1.5N/mm ²
Minimum thickness	4mm
Maximum thickness	15mm
Water demand	200 litres / 1000kg (20%)
Compressive strength	C 35
Flexural strength	F 10
Shrinkage (28 days)	< 0.07%
Flow Rate	230 – 250mm
Approx. material consumption	1.7kg/ m ² / mm
Hardening time (before foot traffic)	2-4 hours in normal conditions
Hardening time (before final covering)	24 hours in normal conditions
Pot Life	20 min (after adding water)
Wear resistance (steel-wheel, class)	BCA class AR 0.5
Wear resistance (RW (defined) class)	RWA 100
Pendulum Test Value (dry)	65 - Low potential for slip*
Pendulum Test Value (wet)	40 - Low potential for slip*
Pendulum Test Value (oil)	16 - High potential for slip*

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