

# Floor 4150 Fine Flow

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## To replace ABS 148

### Product description

Floor 4150 FineFlow is a pump applied 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 4 - 30mm (Per normal concrete). The product is casein free

### Field of application

Floor 4150 is designed for levelling of floors in apartments, offices and public buildings where the requirement for surface tensile strength is  $>1.0 \text{ N/mm}^2$ . The levelled floor can be covered with ceramics, terrazzo, PVC, linoleum, cork and floating parquet. For gluing parquet, flexible MS-polymer based glue is recommended and the parquet-producers recommendation should be followed

### Working instructions

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  $+10^\circ\text{C}$  or rise above  $+25^\circ\text{C}$ . The relative humidity of the substrate must be  $<95\%$ .

### Substrate

Suitable substrates are concrete and lightweight-concrete. The surface strength of the substrate must be greater than  $1\text{N/mm}^2$  (pull-off strength).

### 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 with lids and separated with stop ends. Large irregularities ( $>30 \text{ mm}$ ) should be filled. The infill should be left to set before the next application. The substrate should be vacuum cleaned, prepared and primed with 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. See Floor 4716 Primer data sheet.



### Mixing

Floor 4150 FineFlow is mixed with clean water using an automatic screed mixer approved by maxit. For manual mixing the screed should be mixed with a suitable paddle mixer for at least 2 minutes. Suitable water amount is approx. 21% (of the powders dry weight), which corresponds to 5.25 litres / 25 kg bag. Pot-life is 20 min. from mixing with water. The temperature of the screed must be at least  $+10^\circ\text{C}$ . The flow properties of the screed should be checked by flow testing before and during pumping (further information is available from maxit). Excess water causes separation and weakens the strength of the screed surface, therefore do not use excessive amounts of water

### Application

The maximum width of the pumpable area varies from 6 to 8 metres depending on 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 and to maintain a wet edge. A wide spatula or spike roller should be used to assist the self-levelling process.

### Overlay

The levelled floor can be covered with ceramics, terrazzo, PVC, linoleum, cork and floating parquet. For gluing parquet flexible MS-polymer based glue is recommended and the parquet manufacturer's recommendation should be followed. Floor 4150 should not be painted or used without a floor finish

### Storage

Storage time in dry conditions and closed packages is 6 months. For deliveries in bulk the storage time is 3 months; longer time may have an adverse impact of the levelling properties.

### Package

Delivered in 25 kg bags, 1000 kg big bags

## 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 Floor 4031 SuperFlow 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.

## Environmental advice

- Low alkalinity
- Recyclable raw materials
- Casein free
- SITAC Standard Approval Certificate
- Low emissions

## Safety instruction

Hazardous - contains cement, which is alkaline when wet and can cause skin irritation. Use eye protection, gloves and barrier cream and avoid prolonged skin contact. Avoid inhalation of dust. Wash skin contamination away with warm, soapy water. Remove splashes to the eyes by prolonged irrigation and consult a doctor. Do not ingest. Refer to Health and Safety Data Sheet.

<b>Application temperature</b>	+10 – +25 optimal +15 – +20 °C
<b>Certificate ISO 9001</b>	Certificate ISO 9001
<b>Maximum thickness</b>	30mm
<b>Minimum thickness</b>	4mm
<b>Recommended layer thickness</b>	6-10mm
<b>Water demand</b>	5.25ltr / 25kg (21 %)
<b>Adhesion strength 28 d,,</b>	>1.0 N/mm <sup>2</sup>
<b>Compressive strength class</b>	C 20
<b>Compressive strength (28 day)</b>	25 N/mm <sup>2</sup>
<b>Flexural strength class</b>	F 6
<b>Flexural strength (28 day)</b>	6.5 N/mm <sup>2</sup>

<b>Tensile strength</b>	>1.5
<b>Shrinkage (28 days)</b>	< 0.04 mm/m
<b>Flow rate according to (maxit standard)</b>	240 - 255mm
<b>Flow rate according to (Flow ring 50 x 22 mm)</b>	155 - 160mm
<b>Hardening time (before foot traffic)</b>	2 - 4 hours
<b>Hardening time (before common traffic)</b>	Final floor covering after 1 -3 weeks depending on the layer thickness and drying conditions.
<b>Transverse tensile strength</b>	>1.5 N/mm <sup>2</sup>
<b>Physical requirements (Reaction to fire)</b>	A 2 fl sl
<b>Binder</b>	A special cement-blend
<b>Admixture</b>	Admixtures to improve adhesion and levelling. Casein-free.
<b>Aggregate</b>	Natural sand and limestone powder, max grain-size 0,6 mm
<b>Recommended water content</b>	21 %
<b>Pot life</b>	20 min (after adding water)
<b>Wear resistance (RWA Class)</b>	RWFC 350 (thickness 4-30 mm)
<b>Material consumption,</b>	1.7 kg/m <sup>2</sup> /mm

nbsPlus Stamp

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