

# Floor 4050 Hand applied

## Medium finish floor compound

1, 13/03/2007

### Product description

Floor 4050 floor screed is a rapid hardening, hand applied fibre reinforced flooring compound, which can be used over heated floors. It is supplied as a pre-blended powder and is designed for application between 15-100 mm. As a floating construction the recommended layer thickness is 25-50 mm. Floor 4050 is casein and protein free and resistant to alkaline moisture.

### Field of application

Floor 4050 floor screed is used in most domestic and commercial floor applications that require either rapid drying slopes or levelling prior to the application of a wearing surface. Floor 4050 can be used to floor heating systems with electricity or water circulation. Floor 4050 can be covered with ceramic tiles, stone tiles or parquet blocks. Prior to covering with PVC- and textile carpets, vinyl tiles or cork, the surface of Floor 4050 should be finished with Floor 4031 Fine Smoothing Compound.

### Substrate

The substrate should be clean, dry, free of dust, grease, and other impurities that might prevent adhesion. If it is a large area the surface should be treated by mechanical preparation by grinding or shot blasting. The surface strength of the substrate has to be at least 1 MPa (N/mm<sup>2</sup>). The substrate is vacuum-cleaned and primed with Floor 4716 Dispersion primer according to maxit substrate recommendations. Dry and very porous substrates must be treated twice.

### Preparation and Priming

The substrate should be mechanically prepared to remove impurities that might prevent adhesion and then vacuumed cleaned. Surface tensile strength of the substrate should be above 1.0 N/mm<sup>2</sup>. The substrate is primed with Floor 4716 Primer -a mixture with water according to the instructions on the data sheets for Floor 4716. The function of the primer is to improve adhesion to the sub-floor, to prevent air bubbles and to prevent de-watering of the floor compound before hardening. Dry and very porous substrates (cast-in-situ concrete floors) must be treated twice. The temperature of the work area and substrate should be between +10 C and +25 C

### Mixing

Floor 4050 should be mixed into 3.8- 4.5 litres of clean water (15-18%) per bag. The material and water should be mixed using a drill fitted with a paddle or a mixer for a minimum of 2 minutes, until a paste consistency is achieved. Pot-life is approx. 20 min after mixing



with water. Do not use excessive water, as the strength of the screed will be reduced. Ensure that the material is correctly mixed and free from separation.

### Application

The compound should be spread with a smooth steel trowel.

### After-treatment

Floor 4050 floor screed can be covered with ceramic tiles, stone tiles or parquet blocks. Prior to covering with PVC- and textile carpets, vinyl tiles or cork, the surface of Floor 4050 should be finished with maxit Floor 4031 Fine Smoothing Compound. Because of the moisture expansion, a plywood board must be installed under the strip pattern parquet that is glued to the substrate. The surface underlayment should not be painted or used as a finished surface.

### Practical advice

Tools are washed with water immediately after use.

### Storage

6 months under dry conditions.

### Package

25 kg bags

### Drying time

If necessary, the surface can be ground and/or levelled over with Floor 4031 after 3-4 hours from application.

The screed except foot traffic after having dried for 2-3 hours at an ambient temperature of +20 °C. Layers less than 20 mm thick can be covered after 1 day in normal levelling conditions (+20 °C, 50% RH). The thickest layers dry in approx. 3 days.

## Safety instruction

Hazardous- contains cement, which is an 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 °C- +25 °C optimal: +15 °C- +20 °C
<b>Waiting time between the working parts</b>	If necessary, the surface can be ground and/or levelled over with Floor 4031 after 3-4 hours from application.
<b>Drying time before covering</b>	1-3 days dependent upon ambient temperature
<b>Maximum thickness</b>	100
<b>Minimum thickness</b>	15
<b>Recommended layer thickness</b>	Bonded 15-100 mm, Floating 25-50 mm.
<b>Water demand</b>	3,8 - 4,5 litres per 25 kg bag (15 - 18%)
<b>Compressive strength class</b>	C 30
<b>Compressive strength (28 day)</b>	>30 MPa
<b>Flexural strength class</b>	F 6
<b>Flexural strength (28 day)</b>	> 6 MPa
<b>Shrinkage (28 days)</b>	< 0.4 mm/m
<b>Hardening time (before foot traffic)</b>	2-3 hours
<b>Chemical requirements (pH)</b>	10,5- 11
<b>Binder</b>	Special cement mixture
<b>Additive</b>	Additives to improve adhesion and workability. Fibre reinforced. Casein free.
<b>Aggregate</b>	Natural sand and limestone powder, grain size <1,2 mm
<b>Pot life</b>	The mixed material should be used within 20 minutes of water being add.

**Wear resistance (RWA Class)** RWFC 250. Can be used in offices.

**Material consumption,** 1mm = 1.8kg/ m2

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