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FLOOR LEVELLING PLASTER LT 4000



Product description

Fescon Floor levelling plaster LT 4000 is an easy-to-level, fast-setting and fast-drying cement-based floor screed.

- For layer thicknesses 3-30 mm
- Manually levelled
- For floors with underfloor heating
- Dries through hydration
- Correction of grading in floor
- Pre-levelling of seams between hollow-core slabs before application of pump filler

Applications

- Concrete floor levelling indoors
- Manual levelling, when the structure must be finished quickly
- To correct errors in falls, and as a waterproofing substrate.
- Graded casting using the pouring technique

The product is listed in the portal for building products that can be used in Nordic Swan Ecolabelled buildings.

Instructions

Base

- Concrete substrates
- The substrate must be clean, solid, and dust-free, and it must be vacuumed.
- Loose layers, cement laitance, and other impurities must be mechanically removed to ensure proper adhesion between the floor screed and the substrate.
- The substrate must be sufficiently strong, stable, and load-bearing.
- The tensile strength of the substrate must be > 1.0 MPa.
- The temperature of the subfloor structure must be > +10°C and the relative humidity < 95% RH. The subfloor's relative humidity affects the drying time of the floor screed.
- If necessary, uneven areas should be pre-filled with Fescon LM 5000 before applying the floor screed.

Priming

- Priming is carried out according to the instructions for Fescon Adhesion promoter or Flow Primer, depending on the substrate.
- Non-absorbent surfaces (e.g. ceramic tiles, epoxy, metal surfaces) must be pre-treated in accordance with the Primer PLUS instructions.

Instructions for use

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- The working area must be fully protected from wind, drafts, sunlight, and rain.
- During floor installation, the indoor temperature must be between +10°C and +25°C, and the relative humidity must be above 40% RH.
- One 20 kg bag of screed is mixed with 3.6–4.0 litres of cold water.
- Overdosing water is prohibited, as it weakens the strength properties of the screed, increases the risk of separation, and prolongs the drying time.
- The screed must be mixed into a homogeneous mass using a power drill with a mixing paddle. Mixing time is approximately 1.5 minutes.
- Apply the screed to the substrate and level it with a steel trowel.
- Working time is approx. 0.5 hours from the addition of water.
- Clean tools immediately after use with water.
- Hardened screed must be removed mechanically.

Flooring

- Floor levelling plaster LT 4000 can be directly waterproofed using certified products from the Fescon Waterproofing system.
- It can be covered with ceramic tiles, plastic coverings, textile carpets, vinyl tiles, engineered wood/laminate flooring, and cork. If necessary, a skim coat with Fescon hand-applied levelling compounds, such as FlowPlan, should be used.
- It must be ensured that the screed meets the technical requirements of the floor covering manufacturer and the RYL guidelines for the substrate, taking the entire structure into account. The flatness of the screed surface should be measured, if necessary, in accordance with RT instruction 14-11039.
- The floor screed must not be left uncoated for more than 3 months due to the risk of cracking and detachment.
- Once the screed has reached the required moisture level for the selected floor covering, the floor must be covered or post-treatment initiated.
- Check the moisture content of the entire floor structure before installing the floor covering.
- Good drying conditions for the screed require that the indoor relative humidity is below 50% RH and the temperature is above +20°C. Poor conditions will slow down the development of the screed’s strength properties and extend the drying time.

Waste handling

Storage and handling of waste
See the separate storage and disposal instructions https://www.fescon.fi/en/material-bank

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Technical information

Material usage	Approx. 1.5 kg/m^2/1 mm
Water requirement	3.6 - 4.0 l/20 kg
Type	Powder
Binder	Special cement
Colour	Grey
Maximum grain size	0.6 mm
Package size	20 kg
Storage	Storage time in a dry location approx. 12 months
Layer thickness	3 - 30 mm
Fibre	Not fibre-reinforced
Additives	Additives to improve workability, casein-free
Usage temperature	+10°C...+25°C
Workability time	Approx. 0.5 h
Coatable	Approx. 1 day / 10 mm (+20°C, RH 50%)
Walkable	Approx. 3 h
Strength class	C 20 (EN 13813)
Compressive strength	> 20 MPa (28 days, +20°C, RH 50 %)
Adhesion strength	> 1.0 MPa to concrete (28 days, +20°C, RH 50%)
Flexural bond strength	F 5 (EN 13813)
Surface tensile strength	> 1.0 MPa (28 days, +20°C, RH 50 %)
Frost resistance	Not frost-resistant, for indoor use only
pH	< 11 low-alkaline (hardened material)
Waterproofness	Water-resistant
GWP A1-A3	0,32
GWP unit	kg CO2e/kg
Method for calculating the GWP value	Generic

Limitation of liability, product use notes and restrictions: Please familiarize yourself with Fescon Oy's general terms of delivery and the design and work instructions related to the product.