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FLOWPLAN



Product description

Easy to use and highly spreadable cement-based floor screed for layers of less than 20 mm. Suitable for use as a base for mats in public areas and for all finishing and overlay applications. Can be used for overlaying all Fescon flooring products and as a subfloor structure for polyurethane and epoxy coatings with a layer thickness of more than 3 mm. FlowPlan can be used for overlaying underfloor heating cables and for thin finishing layers in wet rooms before waterproofing. Suitable for painting, tiling or as a base for adhesive surface materials.

- For layer thickness 1 - 15 mm (partial levelling max. 20 mm)
- Pumpable and suitable for leveling by hand
- Compressive strength C 30
- Surface tensile strength > 1.50 MPa

Applications

- For finishing and overlaying concrete floors and cement-based floor screeds in homes, commercial premises, hospitals, offices and schools
- Suitable as a base for polyurethane and epoxy coatings with a layer thickness of more than 3 mm
- As a base for adhesive surface materials
- For leveling cavity slabs and concrete floors where high strength is required
- As a base for mats for public spaces
- For alkali protection with a minimum layer thickness of 5 mm

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

Instructions

Base

- Concrete floors, cavity tiles and cement-based floor screeds
- The base must be clean, dust-free, solid and firmly fixed in place
- Loose layers, cement paste, and other impurities have been mechanically removed to ensure adhesion between the floor levelling compound and base
- The tensile strength of the base must be > 1.0 MPa
- The temperature of the underfloor structure is > +10°C and relative humidity < 95% RH The relative humidity of the underfloor structure affects the setting of the floor levelling compound
- If necessary, any unevenness can be filled in with the appropriate Fescon product before floor leveling
- Possible leakage areas are sealed with putty

Priming

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- Priming is performed according to the instructions of Fescon Adhesive Promoter or Flow Primer, depending on the base
- Priming of non-absorbing surfaces (such as ceramic tiles, epoxy, metal surfaces) according to the instructions of Primer PLUS

Instructions for use

- The workspace must be protected all over against wind, draught, sun, and rain
- When pumping, the minimum layer thickness must be checked with the floor work contractor
- During floor work, the indoor temperature has to be +10°C…+25°C, and the relative humidity of the indoor air > 40% RH
- Mix a bag (20 kg) of the levelling compound in 5.2 - 5.5 litres of cold water
- Do not use more water than instructed, because it will reduce the strength values of the floor levelling compound, increases the risk of separation, and adds to the setting time of the floor levelling compound.
- The levelling compound is mixed to a consistent paste with a drill paddle, or if pumped, with an automated or pipe mixer. Mixing time is approximately 1.5 minutes.
- Apply the levelling compound with a steel trowel or pump onto the surface being levelled. Pumped floors are finished with a roller screed.
- Workable for about half an hour after adding water
- Wash tools with water immediately after completing the work
- Make sure ventilation is adequate after finishing the floor levelling compound work.
- If need be, the setting of the floor levelling compound can be accelerated by grinding the surface because this reduces the resistance of water vapour in the surface of the floor levelling compound.
- The setting times are greatly affected by the conditions at the work site, ventilation, and the amount of water used in the floor levelling compounds.
- The floor load capacity is estimated work site specifically with the floor levelling contractor

Covering

- Can be coated with ceramic tiles, plastic coatings, textile mats, vinyl tiles, wood parquet or laminate, and cork.
- Also suitable as the base of a glue-down wooden floor
- Can be coated with polyurethane and epoxy products with a layer thickness of more than 3 mm
- However, it must be ensured that the levelling compound, concerning its technical properties, meets the requirements of the manufacturer of the floor covering and RYL for bases to be covered, with the entire structure in mind.
- Once the floor levelling compound has reached the degree of dryness required by the covering, the floor is covered or aftercare commenced
- The floor levelling compound must not be left uncovered for more than 3 months due to the risk of it cracking or detaching
- Check the humidity of the entire floor structure before installing a coating
- Good setting properties for the floor levelling compound require that the indoor humidity is less than 50% RH and the temperature is over +20°C. Poor conditions slow down the development of the strength characteristics of floor levelling compounds and increase the setting time.
- In conditions with an RH of less than 40%, special attention should be paid to when to start the aftercare. The need for aftercare is assessed on a case-by-case basis.

Waste handling

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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/mm
Water requirement	5.2 - 5.5 l / 20 kg (155 - 160 mm flow as measured by Fescon flow plate)
Type	Powder
Binder	Special cement
Colour	Grey
Maximum grain size	0.3 mm
Package size	20 kg
Storage	Storage time in a dry location approx. 10 months
Layer thickness	1 - 15 mm (partial levelling max. 20 mm)
Fibre	Non-fibre reinforced
Additives	Substances improving workability, casein-free
Usage temperature	+10°C...25°C (platform and internal temperature)
Workability time	Approx. 0.5 h
Drying time	
Coatable	Approx 24 h (+20°C, RH 50%), < 10 mm, > 10 mm the drying time will be longer
Walkable	Approx. 3 - 4 h
Strength class	C 30 (EN 13813)
Compressive strength	> 30 MPa (28 days, +20°C, RH 50%)
Adhesion strength	> 1.5 MPa for concrete (28 days, +20°C, RH 50%)
Flexural bond strength	F 7 (EN 13813)
Surface tensile strength	> 1.5 MPa (28 days, +20°C, RH 50%)
Wear resistance	RWFC 550 (EN 13892-7), RWA 10 (EN 13892-5)
Frost resistance	Not frost-resistant, for indoor use
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

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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.