

Floor HF30

Self levelling, fast-hardening flooring with fiber, for indoor use



Product description

Marlon Floor HF30 (Danish name: Marlon Fiberspachtel H30) is a factory-produced, self-levelling dry mortar made from fast hardening cement, mineral additives, polymer and oven-dried fine-grained silica sand. The product is ready for use after clean water is added and the mixture is mixed effectively.

Benefits

- Can be laid as finished flooring, in thicknesses up to 30 mm
- Pumpable and self-levelling fibre flooring
- Volume-stable, laying of large, jointfree areas
- Fast drying
- Just add water

Applications

Marlon Floor HF30 is a strong, self-levelling liquid flooring material that is typically used for floor constructions where there is uncertainty regarding the load capacity, e.g. with floors of concrete, concrete elements, clinkers, wood and tiles. With its high content of polymer, Marlon Floor HF30 offers excellent wear-resistance and adhesion to the underlying surface and can therefore be used as finished flooring in, e.g. offices, institutions, warehouses and other factory areas that are subject to lighter loads. Most epoxy and paint products are suitable for aftercare. Marlon Floor HF30 may not be used outdoors and must, in areas where there is continuous exposure to water, be covered in an MK-certified (Danish material and constructions certification) waterproofing membrane. For nonporous coatings, such as linoleum, vinyl, membranes and for joint-free coatings, it is important that Marlon Floor HF30 dry sufficiently before laying the nonporous coating. See drying process on page 2 (for wooden flooring, always follow the manufacturer's instructions).

Preparation

The surface must be well-suited, firm and free of any loose particles, dust or other impurities that could prevent sufficient adhesion to the surface, which should have a tensile strength of min. 1 MPa on the surface. The cleaned surface is primed 1-2 times with Marlon Primer FL, until the surface is saturated, before the work is started. Avoid the formation of primer puddles (see separate specification sheet for Marlon Primer FL).

Mixing

Manual mixing is done with a slow-rotating drill with a two-bladed propeller mixer attached. Marlon recommends first pouring $\frac{3}{4}$ of the water in a bucket/mixing tub. Next, add the dry powder mix and mix thoroughly while gradually adding the remaining water. Mix well until the mixture is free of lumps and very fluid. For large projects, it is a good idea to use a mortar pump.

Application

Marlon Floor HF30 is poured or pumped out through hoses on the floor surface. You start where the thickest layer is to be laid. The thickness is typically between 5 and 30 mm, which can be applied in a single work process. A plunger stick, spiked roller, spacer knife or other material/tools can be used where suitable. In normal conditions at approx. +20°C Marlon Floor HF30 can be walked on after about 1-2 hours setting and tolerates heavier traffic after about 1-3 days. The opening time is approx. 15-20 min.

Aftercare

Newly laid Marlon Floor HF30 must be protected from rapid drying from draughts, high room temperatures, sun rays and the like.

Limitations

Not for use outdoors. Does not tolerate frost during pouring, hardening and setting. Building site conditions such as cooled surroundings in the construction and/or cooled products will diminish the liquidity and the product's curing and drying properties. Likewise, high temperatures can also affect the product's properties by shortening the working time and by speeding up drying.

Cleaning

Clean equipment, machinery and tools with water immediately after use.

Inspection

Marlon Floor HF30 is subject to internal inspection according to Marlon's quality assurance system. Subsequent measuring and mixing at the site of application is not included in quality control.



Product information

Manufacturer

Marlon Tørmørtel A/S
Virkeyst 20
DK-8740 Brædstrup

Material type

Fast-setting cement-based liquid flooring material with fibre, intended for indoor use.

Filler material

Sorted and oven-dried silica sand (D_{max}) 1 mm.

Additives

Portland and aluminous cement, polymer and mineral additives.

Environment

Ammonia and formaldehyde-free.

Added water

19-2% of the dry powder weight (4.8 l per 25 kg).

Pouring temperature

Between +5°C and +25°C.

Time open

15-20 minutes, depending on the temperature.

Layer thickness

Approx. 5 to 30 mm.

Consumption

Approx. 1.6 kg dry powder product per m^2/mm layer thickness.

Curing time

1-3 hours for foot traffic.
24 hours for light traffic.
1 week for heavy traffic.

Storage time

Min. 9 mos. in unopened original packaging.

Packaging

25 kg plastic sacks, big bags and loose.

Technical data	Values	Method
Compressive strength, 28 days	> 30 MPa	DS/EN 13892-2
Bending tensile strength, 28 days	8 MPa	DS/EN 13892-2
Adhesion to high-strength concrete	> 2 MPa	SS 923507
Viscosity	155-160 mm (Ring 50 x 22 mm)	SS 923519
Contraction, 28 days	0.60-0.85 ‰	DS/EN 13872
Chromate content	< 2 mg/kg cement	
Chloride content	0.002 vægt %	
pH value	Approx. 11,5	
Water damage stability	Swelling under water < free contraction	

Drying process Executed at +20 °C abd 65 % RF

Day	10 mm	40 mm	Information
1	< 85 % RF	94 % RF	Item no. 10585 Pr no. 2179690
14		85 % RF	Version 06.14 replaces 11.12



Marlon Tørmørtel A/S
Virkeyst 20
8740 Brædstrup
Year 10
DoP 1000585

DS/EN 13813

CT-C30-F8
Cement-based levelling material for use indoors in buildings.

Reaction to fire	A_1 fl
Release of corrosive substances	CT
Water permeability	NPD
Water vapour permeability	NDP
Compressive strength	C30
Bending strength	F8
Surface hardness	NPD
Resistance to wear	NPD
Soundproofing	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

