MARLON
Tørmørtel A/S



Floor H30

Self levelling, fast-hardening flooring for indoor use

Product description

Marlon Floor H30 (Danish name: Marlon Flydespartel 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 flooring
- Volume-stable, laying of large, jointfree areas
- Fast drying
- Just add water

Applications

Marlon Floor H30 is a strong, self-levelling liquid floor screed 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 H30 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 H30 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 H30 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 ¾ 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 H30 is poured or pumped out though hoses on the floor surface. You start where the thickest layer is to be laid. The thickness is typically between 2 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 H30 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 H30 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 H30 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
Virkelyst 20, DK-8740 Brædstrup

Material type
Fast-setting cement-based liquid flooring screed 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
19-20% of the dry powder weight (4.7-5.0 l per 25 kg).

Pouring temperature
Between +5°C and +25°C.

Time open
15-20 minutes, depending on the temperature.

Layer thickness
Approx. 2 to 30 mm.

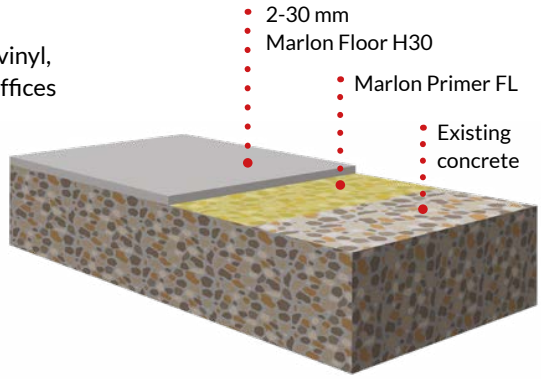
Consumption
Approx. 1.6 kg dry powder product per m²/mm layer thickness.

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.

Marlon Floor H30
Underlayment for carpets, linoleum, vinyl, wood flooring and finished floors in offices and light industry.



Technical data	Value	Method
Compressive strength	> 30 MPa after 28 days	DS/EN 13892-2
Bending tensile strength	8 MPa after 28 days	DS/EN 13892-2
Viscosity	155-160 mm (Ring 50 x 22 mm)	SS 923519
Contraction	0.6-0.85 ‰ after 28 days	
Chromate content	< 2 mg/kg cement	
Chloride content	0.002 weight %	
pH value	Approx. 11.5	
Water damage stability	Swelling under water < free contraction	

CE

Marlon Tørmørtel A/S
Virkelyst 20
8740 Brædstrup
Year 10
DoP 10485

DS/EN 13813
CT-C30-F8-SH100.
Cement-based levelling material for use indoors in buildings.

Reaction to fire	A1fl
Release of corrosive substances	CT
Water permeability	NPD
Water vapour permeability	NDP
Compressive strength	C30
Bending strength	F8
Surface hardness	SH100
Resistance to wear	NPD
Soundproofing	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

Drying process		
Day	10 mm	40 mm
1	< 85 % RF	94 % RF
14		85 % RF
Executed at +20°C and 65 % RF		

Information	
Item no.	10485
Pr no.	2179690
DB no.	5212782
Version	06.14 replaces 11.12