

# TurboFlow 20

Cement-based fast setting liquid mortar



## Product description

Marlon TurboFlow 20 is a cement-based, fast-setting liquid mortar for cementing work requiring a short setting time and fast strengthening. Marlon TurboFlow 20 is composed of special fast-setting cement, contraction-reducing additives and oven-dried silica sand with a controlled grain size. Ready for use after clean water is added and the mixture is mixed effectively.

## Benefits

- Versatile, pre-mixed liquid mortar
- Very fast setting and high, early strength
- Contraction-compensated
- Requires only the addition of water

## Applications

Marlon TurboFlow 20 is typically used for filling work, where a fast-curing, workable liquid mortar is needed. Not for use in bearing building parts.

## Properties

Mixing with the specified amount of water produces a liquid mortar with good flow and workability. Marlon TurboFlow 20 can be poured directly out into the area or the mould to be filled. Marlon TurboFlow 20 achieves a relatively high strength in just a few hours.

## Preparation

Before repair or pouring work can begin, you must ensure a suitable and solid underlying surface free of loose particles and cleaned of any cement slurry, oil or other impurities. If the underlying surface is absorbent, you must water the surface to achieve a suitably absorbent surface, to achieve the greatest possible adhesion.

## Mixing

The mixing water is poured into a suitable tub and then mixed while the powder is gradually added. Mix until the mortar is uniform, without lumps and with a fluid consistency.

## Application

Marlon TurboFlow 20 must be used immediately after mixture, as the setting process is far faster than with traditional mortars. The opening time is approx. 10-15 min at +20°C. Higher temperatures will shorten, and higher temperatures will lengthen both the processing and hardening times. For larger cementation projects, consideration must be given to contraction and expansion joints according to the same guidelines as for ordinary concrete pouring. Adding more water than described will reduce the strength and curing time and increase the tendency towards contraction cracks. Marlon TurboFlow 20 is generally used for thicknesses of 10-150 mm.

## Aftercare

Newly poured liquid mortar must be protected from fast drying the first 12-15 hours with the help of tight-sealing plastic film, sealer or another suitable and approved method.

## Limitations

Casting should not take place at temperatures under +5°C. Marlon TurboFlow 20 does not tolerate frost in the setting and curing periods.

## Cleaning

Clean equipment, machinery and tools with water immediately after use. Hardened TurboFlow 20 can only be removed mechanically.

## Inspection

Marlon TurboFlow 20 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

## Filler material

Oven-dried and sorted silica sand, cl. E.

## Material type

Fast-curing, cement-based liquid mortar.

## Cement type

Portland/aluminate cement.

## Added water

Approx. 3.6 to 3.8 l per 25 kg.

## Consumption

Approx. 2.0 kg per m<sup>2</sup> at a thickness of 1 mm.

## Opening time

Approx. 10-15 minutes, depending on the temperature.

## Layer thickness

Guideline, approx. 10-150 mm.

## Yield

1 kg liquid mortar corresponding to approx.  
0.5 l wet mortar.

## Storage

9 months in dry and suited conditions in unopened packaging.

## Packaging

25 kg plastic sacks or big bags.

## Technical data

Technical data	Values	Method
Compressive strength, 28 days	> 60 MPa	DS/EN 12190
Bending tensile strength, 28 days	> 9 MPa	DS/EN 12190
Density (wet)	Approx. 2000 kg/m <sup>3</sup>	DS/EN 423.16
Chromate content	< 2 mg/kg cement	
Chloride content	< 0.003 weight %	TI-B 9

## Information

Item no.	10309
Pr no.	Application pending
Version	04.14 -



Marlon Tørmørtel A/S  
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Year 15  
DoP 1000309

## EN 1504-3

1073-CPR-171-01  
Concrete repair product for construction repairs. CC mortar based on hydraulic cement.

Compressive strength	> 45 MPa Class R4
Chloride content	≤ 0.05 %
Adhesion	≥ 2.0 MPa
Carbonatization	Passed
Elastic modulus	≥ 20 GPa
Thermal compatibility	Part 1 ≥ 2.0 MPa
Capillary absorption	≤ 0.5 kg x m <sup>2</sup> x h <sup>-5</sup>
Hazardous substances	In accordance with section 5.4
Fire-resistance	Class A1