

WellConcrete

Fast curing, fibre-reinforced light weight concrete



Product description

Marlon WellConcrete (Danish name: Marlon BanketBeton) is a fast-curing cement and fibre-based light weight repair concrete that requires only the addition of water. Marlon WellConcrete has a particularly good workability and hardens faster than traditional repair concretes. The product is composed of special fast-curing cement, microsilica, a series of additives and oven-dried silica sand. Satisfies the material requirements for extra aggressive environments (see DS/EN 206 DK NA:2020).

Benefits

- Fast-drying, formable light-weight concrete
- Fibre-reinforced and contraction-compensated
- Requires only the addition of water
- Can be used in varying thicknesses, from 2 to 100 mm
- Delivered in weather-resistant plastic packaging

Applications

Marlon WellConcrete is particularly well-suited for demanding repair jobs in manholes, well berms and similar tasks requiring stable, formable fast-setting concrete. Marlon WellConcrete is easy to form and can be used in places requiring large, varying layer thicknesses and relatively rapid setting. Typically areas that will be used shortly after pouring.

Preparation

To ensure the greatest possible adhesion for old concrete, the surface should be cleaned of any cement sludge, dust, oil, grease and other loose impurities. The cleaned surface must be watered, to produce a uniform, dull and slightly absorbent surface.

Mixing

Marlon WellConcrete is mixed with clean water and blended for at least 5 min. to the desired consistency in a suitable agitator mixer. It is recommended to mix the entire content of the bag. Manual mixing can be done with a low-speed drill with a suitable whisk attached. The mixing water is first poured into the tub. The dry product is then added and the mixture is blended thoroughly. The working time is 20-30 min at +20°C. Higher temperatures will shorten, and higher temperatures will lengthen both the processing and hardening times.

Application

Marlon WellConcrete can generally be placed in thicknesses of about 2 to 100 mm. The mixed concrete is placed and compressed thoroughly. The placement is done by hand (remember gloves) or using ordinary masonry tools. Subsequent finish can be done with plastering, fil plastering or steel trowel plastering tools.

Aftercare

In warm periods, newly laid concrete should be protected from rapid drying due to draughts, high temperatures, sunrays etc. In winter periods, the concrete should be protected (optionally, with winter mats) against frost, hard winds etc. in the first 24 hours of curing

Limitations

Repair work with Marlon WellConcrete should not be done at temperatures under +5°C, and the concrete does not tolerate frost in the setting and curing period. As Marlon WellConcrete is a lightweight mortar, the product should not be used in areas that are subject to heavy traffic

Cleaning

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

Inspection

Marlon WellConcrete 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-curing, cement-based dry concrete.

Added water

3.4-3.6 l of clean water per 20 kg dry concrete.

Pouring temperature

Between +5 and +25°C.

Opening time

Approx. 20 min. at +20°C.

Layer thickness

Approx. 2-100 mm. Guideline.

Yield

1 kg dry mortar makes approx. 0.65 l wet concrete.

Filler material

Sorted and oven-dried silica sand, 0-1 mm, cl. E.

Additives

Polypropylene fibre and weight-reducing aggregate, plasticiser and contraction compensating additive.

Storage

The shelf life is min. 12 months under proper dry and well-suited storage conditions in unopened original packaging.

Packaging

Plastic bag 20 kg.

Technical data

Compressive strength, 28 days > 50 MPa

Values

Method

DS/EN 12190

Information

Item no.	1000559
Pr no.	Application pending
DB no.	1939614
Version	04.14 replaces 05.13



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Marlon Tørmørtel A/S
Virkelyst 20
8740 Brædstrup
Year 14
DoP 1000559

EN 1504-3

1073-CPR-171-01
Concrete repair product for repairs that are not subject to static requirements. 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
Hazardous substances	In accordance with section 5.4
Fire-resistance	Class A1