Tamping Concrete EPF

Expanding, fibre-reinforced tamping concrete

Product description
Marlon Tamping Concrete EPF is a fibre-reinforced cement-based premixed dry mortar requiring only the addition of water. The product is synthetically modified and contains a mixture of kiln dried silica sand and additives that produce optimum product characteristics and low shrinkage. The product meets the requirements for Class R4 according to EN 1504-3 and contains no corrosion-prone components. When cured, the compound is water and weather-resistant.

Benefits
- Fast-setting
- Fibre-based
- Contraction-compensated
- Expanding
- Good workability
- Standfast
- Water and weather resistant
- Requires only the addition of water

Uses
Marlon Tamping Concrete EPF is used for the more demanding tamping applications, which are typically elements, machine foundations, banisters, guard-rails, noise barriers, concrete structures on bridges, beams, slabs and pillars. Suitable for repairs and renovations of balconies, façades, stairs, filling cracks etc. with a concrete surface.

Preparation
The surface must be well-suited and washed clean of any oil, grease, cement slurry and other loose particles. The cleaned concrete surface must be watered, to produce a uniform, dull and slightly absorbent surface. Reinforcement iron must be cleaned of rust and chlorides. Metal surfaces must be cleaned of grease, rust etc. To ensure the best possible adhesion to the surface, we recommend priming the surface with Marlon Adhesion Primer CP (see separate data sheet).

Mixing
Marlon Tamping Concrete EPF is mixed with cold water and mixed in a suitable agitator mixer. Mix well for at least 5 min., until the mixture has a lump-free, plastic consistency. Smaller amounts can be mixed in a tub/bucket using a drill with a two-bladed propeller agitator on low speed. When mixing with a drill, first pour the water into the bucket, and then add the powder while mixing.

Application
Apply and compress the mixed tamping concrete thoroughly. Application may be done by hand (remember gloves) or using suitable masonry tools. If you will be using adhesion primer (Marlon Adhesion Primer CP), make sure to work "wet on wet". The recommended thickness is from 10 to 150 mm. The subsequent finish can be done with plastering or steel trowel plastering tools. The working time is approx. 30 min. at +20°C. Lower temperatures prolong, and higher temperatures shorten, the opening and hardening times.

Aftercare
In warm periods, newly laid Tamping Concrete EPF should be protected from rapid drying due to draughts, high temperatures and sunlight with Marlon Curing B75. In winter periods, protect the concrete (optionally, with winter mats) from severe frost, heavy winds etc. in the first 24 hours of curing.

Limitations
Repair/concreting work should not be carried out at temperatures below +5°C. Does not tolerate frost during the curing and cementation period.

Cleaning
Clean tools with water immediately after use. Cured Tamping Concrete EPF can only be removed mechanically.

Testing
Marlon Tamping Concrete EPF is subject to factory testing according to Marlon's quality assurance system. Subsequent measuring and mixing at the application site is not included in quality control.

Product information

Producer
Marlon Tørmørtel A/S
Virkelyst 20
8740 Brædstrup

Material type
Cement-based, fibre-based, expanding tamping concrete

Adhesive agent
Portland cement, CEM I 52,5 N (LA)

Colour
Gey

Filler material
Kiln-dried and sorted silica sand cl. E. (Dmax)2 mm

Additives
Polymer, polypropylene, plasticising and adhesion-boosting additives

Environment
Extra aggressive

Added water
11-13 % of dry powder weight.
(2.2-2.6 L per 20 kg)

Temperature for use
+5°C to +30°C

Beginning setting
Approx. 30 min, depending on temperature

Layer thickness
Guideline 10-150 mm

Consumption
Approx. 2.0 kg dry product per m²/mm layer thickness

Storage
Min. 12 months in dry and suitable conditions in unopened original packaging

Packaging
20 kg plastic sack

Further information
Visit marlon.dk or call +45 7575 4300

Properties	Værdi	Metode
Compressive strength, 28 days	> 45 MPa	DS/EN 12190
Bending tensile strength, 28 days	> 8 MPa	DS/EN 12190
Expansion	0.8 %	
Adhesive strength	> 2 MPa	DS/EN 1542
Density	Approx. 2100 kg/m³	DS/EN 1015 – 6
Air content	6-8 %	
Contraction, 28 days	< 1 ‰	
Chloride content	< 0.003 weight %	EN 1015 - 17
Chromate content	< 2 mg/kg cement	DS/EN 1015-17

CE

Marlon Tørmørtel A/S
Virkelyst 20
8740 Brædstrup
Year 21
DoP 1000298

DS/EN 1504-3
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