Sikafloor® Marine 120
Lightweight Self Levelling Primary Deck Covering Mortar

Technical Data

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<table>
<thead>
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<tbody>
<tr>
<td>Chemical base</td>
<td>Polymer modified cement mortar</td>
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<tr>
<td>Colour</td>
<td>Grey</td>
</tr>
<tr>
<td>Cure mechanism</td>
<td>Hydraulic</td>
</tr>
<tr>
<td>Mixing ratio with cold, potable water per 16 kg bag</td>
<td>5.9 - 6.6 litres</td>
</tr>
<tr>
<td>Density fresh mixed¹ (CQP 599-3)</td>
<td>1.12 g/cm³ approx.</td>
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<tr>
<td>Density dried (CQP 599-4)</td>
<td>0.9 g/cm³ approx.</td>
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<td>Substrate temperature</td>
<td>5-35°C (40-95°F)</td>
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<td>Application thickness²</td>
<td>3-30 mm</td>
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<tr>
<td>Coverage per 16 kg bag (layer thickness 1 mm)</td>
<td>17 m² approx.</td>
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<tr>
<td>Working time³ (CQP 599-9)</td>
<td>30 minutes approx.</td>
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<tr>
<td>Ready to walk on⁴ (CQP 600-3)</td>
<td>depending on humidity and ventilation 12 hours approx.</td>
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<tr>
<td>Compressive strength⁵ (CQP 599-2)</td>
<td>9 MPa approx.</td>
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<td>Flexural strength⁶ (CQP 599-1)</td>
<td>3.4 MPa approx.</td>
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<td>Modulus of elasticity in compression⁶ (CQP 599-5)</td>
<td>2.5 GPa approx.</td>
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<tr>
<td>Linear shrinkage⁷ (CQP 599-5)</td>
<td>0.03% approx.</td>
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<tr>
<td>Shelf life (CQP 600-1) Stored in a cool, dry place below 25°C (75°F)</td>
<td>12 months</td>
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¹Corporate Quality Procedure ²After 7 days ³If applied < 3 mm no self levelling capabilities ⁴23°C (73°F) / 50% r.h. ⁵After 28 days

Product Description
Sikafloor® Marine 120 is a one component light weight and self levelling mortar based on polymer modified cement.
Sikafloor® Marine 120 is manufactured in accordance with ISO 9001 / 14001 quality assurance and tested according to FTP Code system and approved according to the IMO Marine Equipment Directives.

Product Benefits
- Lightweight levelling mortar
- One component, ready to mix
- Easily applicable
- Good levelling properties
- Applicable up to 30 mm
- Can be pumped

Areas of Application
Sikafloor® Marine 120 is applied on interior decks, to level the surface prior to the application of deck finishing materials such as: carpets, tiles, parquet, rubber and vinyl. It is suitable for application in dry and wet accommodation areas. This product is suitable for professional experienced users only.
Tests with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.
Cure Mechanism
Sikafloor® Marine 120 cures by way of hydraulic curing.

Method of Application
Surface preparation
The surface has to be clean, free from dust, grease, oils and other substances, which may impair the adhesion. Rust has to be eliminated with a steel brush or other appropriate means, followed by a vacuum cleaning.

The surface has to be primed with water based Sikafloor® Marine Primer-C using a long hair roller. After the drying of the primer Sikafloor® Marine 120 may be applied. For the application of Sikafloor® Marine 120 on aluminium or zinc rich shop primer coated decks, a tie coat of SikaCor® ZP Primer or another suitable tie coat is required prior the priming step with Sikafloor® Marine Primer-C.

For further information please contact the Technical Service Department of Sika Industry.

Mixing process
One bag Sikafloor® Marine 120 is mixed with 5.9 to 6.6 litres of cold, potable water. The mixing time is approx. 3 minutes at low speed until a homogenous mortar is obtained. If mixed by hand ensure the powder is mixed completely (bottom and side walls of the bucket).

Application
Apply the mortar with a steel board or a straight edge. Sikafloor® Marine 120 has to be applied within 30 minutes after mixing. At temperatures above 35°C the open time will be reduced to 20 minutes or less.

For advice on selecting and setting up a suitable pump system please contact the System Engineering Department of Sika Industry.

Curing
After application, the finished areas should be protected against direct heat, sunlight and draught during the curing process for at least one day after application. Before covering Sikafloor® Marine 120 with dense materials such as vinyl, epoxy coatings, etc., ensure that the remaining moisture level is below 4%.

Test procedure to determine the dryness (according ASTM D 4263)
- put a PE-plastic foil 1 m x 1 m on the surface of the applied mortar floor
- tape the perimeter and leave for one day

The curing is complete if there is no water condensation on the foil or a visible colour difference between covered and uncovered surface.

Removal
Excess material can best be removed before curing with a trowel wipe. Uncured Sikafloor® Marine 120 may be removed from tools and equipment with water. Once cured, the material can only be removed mechanically. Exposed hands and skin should be washed immediately with water. Use a suitable skin protection hand cream.

Application limits
Do not apply Sikafloor® Marine 120 on sloping surfaces (>3%). For applications on sloping surfaces above 3% contact the Technical Service Department of Sika Industry.

Further Information
Copies of the following publications are available on request:
- Safety Data Sheet
- Application Guide Sikafloor® Marine 120

Packaging Information
Bag 16 kg

Value Bases
All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health and Safety Information
For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

Legal Notes
The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika’s current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika’s recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to our current issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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