

# Sikafloor® Marine 100

## Lightweight self-leveling primary deck covering mortar

### Technical Product Data

Chemical base	Polymer modified cement mortar
Colour	Grey
Cure mechanism	Hydraulic
Mixing ratio with cold, potable water	per 14 kg bag 5.9 - 6.4 liter
Density fresh mixed (CQP <sup>1</sup> 599-3)	1.2 g/cm <sup>3</sup> approx.
Density cured <sup>2</sup> (CQP 599-4)	0.9 g/cm <sup>3</sup> approx.
Substrate temperature	5 - 35 °C
Application thickness <sup>4</sup>	Up to 10 mm
Coverage per 14 kg bag (layer thickness 1 mm)	15 m <sup>2</sup> approx.
Working time <sup>4</sup> (CQP 599-9)	30 minutes approx.
Ready to walk on <sup>4</sup> (CQP 600-3)	depending on humidity and ventilation 12 hours approx.
Compressive strength <sup>5</sup> (CQP 599-2)	7 MPa approx.
Flexural strength <sup>5</sup> (CQP 599-1)	4.2 MPa approx.
Modulus of elasticity in compression <sup>5</sup> (CQP 599-5)	2 GPa approx.
Linear shrinkage <sup>5</sup> (CQP 599-5)	0.04 % approx.
Shelf life (CQP 600-1) Stored in a cool, dry place below 25 °C	12 months

<sup>1)</sup> Corporate Quality Procedure    <sup>2)</sup> After 7 days    <sup>3)</sup> If applied < 3 mm no self levelling capabilities    <sup>4)</sup> 23 °C / 50 % r.h.

<sup>5)</sup> After 28 days

### Description

Sikafloor® Marine 100 is a one component light weight and self-leveling mortar based on polymer modified cement.

Sikafloor® Marine 100 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.

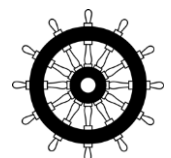
### Product Benefits

- Lightweight leveling mortar
- One component, ready to mix
- Easily applicable
- Good leveling properties in thin layers
- Can be pumped

### Areas of Application

Sikafloor® Marine 100 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 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 100 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 removed with a steel brush or other appropriate means, followed by vacuum cleaning.

The surface has to be primed with Sikafloor® Marine Primer-C using a long hair roller. After the drying of the primer Sikafloor® Marine 100 may be applied.

For the Sikafloor® Marine 100 application on aluminum 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 Department of Sika Industry.

#### Mixing process

One bag Sikafloor® Marine 100 is mixed with 5.9 to 6.4 liters 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 100 has to be applied within 30 minutes after mixing. At temperatures above 35 °C the open time will be reduced to 10 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 (e.g. cutting or welding from beneath), sunlight and draught during the curing process for at least one day after application.

Before covering Sikafloor® Marine 100 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 color difference between covered and uncovered surface.

### Removal

Excess material can best be removed before curing with a trowel wipe.

Uncured Sikafloor® Marine 100 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 100 on sloping surfaces (> 3 %). For applications on sloping surfaces above 3 % contact the Technical Department of Sika Industry.

### Further information

Copies of the following publications are available on request:

- Safety Data Sheet
- Application Guide Sikafloor® Marine 100

### Packaging Information

Bag	14 kg
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### 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 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 the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Further information available at:  
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