BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor® Marine-118 FC

Self-leveling primary deck covering / constrained layer for interior decks

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base		Polymer modified cement mortar
Colour		Grey
Cure mechanism		Hydraulic
Density fresh	mixed cured [A]	1.9 g/cm³ 1.8 g/cm³
Mixing ratio	per 25 kg bag	5.3 – 6.0 liters
Substrate temperature		5 – 30 °C
Application thickness		3 – 25 mm
Coverage	per bag at layer thickness 1 mm	13 m²
Working time (CQP599-9)		20 minutes [B]
Ready to walk on (CQP600-3)	depending on humidity and ventilation	2 hours [B]
Compressive strength (CQP599-2)		25 MPa [C]
Flexural strength (CQP599-1)		7.7 MPa [C]
Modulus of elasticity in compression (CQP599-6 / EN 13412)		12.3 GPa [C]
Linear shrinkage (CQP599-5)		0.03 % C
Shelf life		12 months [D]

CQP = Corporate Quality Procedure
[A] after 7 days
[B] 23 °C / 50 % r. h.
[C] after 28 days
[D] stored in a cool, dry place below 25 °C

DESCRIPTION

Sikafloor® Marine-118 FC is a one component self-leveling mortar based on polymer modified cement.
Sikafloor® Marine-118 FC is tested according to FTP Code system and approved according to the IMO Marine Equipment Directives.

PRODUCT BENEFITS

- Fast curing
- Can be pumped
- Non combustible
- One component, ready to mix
- Easily applicable

AREAS OF APPLICATION

Sikafloor® Marine-118 FC 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 all dry and wet accommodation areas.
This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

CURE MECHANISM
Sikafloor® Marine-118 FC cures by way of hydraulic curing.

METHOD OF APPLICATION

Surface preparation
For leveling applications, the surface has to be clean, free from dust, grease, oils and other substances, which may impair 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 drying of the Sikafloor® Marine Primer C, Sikafloor® Marine-118 FC may be applied.
For use in combination with Sikafloor® Marine PU-Red the application can be executed without primer.
Sikafloor® Marine-118 FC applications on aluminum or zinc rich shop primer coated decks, require a tie coat of SikaCor® ZP Primer or another suitable tie coat prior the priming step with Sikafloor® Marine Primer-C.
For wet areas the surface has to be treated with a water resistant membrane (e.g. Sikafloor® Marine Elastic).

Mixing process
One bag of Sikafloor® Marine-118 FC is mixed with 5.3 to 6 liters cold potable water. The mixing time with a drilling machine and proper mixing paddles is approx. 5 minutes (not higher than 400 rpm's).
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-118 FC can also be applied by pinrake.
Sikafloor® Marine-118 FC has to be applied within 20 minutes after mixing. At temperatures above 30 °C the open time will be reduced to 10 minutes or less.
For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Curing
After application, the finished areas have to be protected against direct heat (e.g. cutting or welding from beneath), sunlight and draught during the curing process for at least 12 hours.
Before Sikafloor® Marine-118 FC is covered 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 or water.
Fresh Sikafloor® Marine-118 FC may be removed from tools and equipment with water. Once cured, the material can only be removed mechanically.
Exposed hands and skin shall be washed immediately with water. Use a suitable skin protection hand cream.

Application limits
For applications on slooping surfaces > 1 % contact the Technical Department of Sika Industry.

FURTHER INFORMATION
The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.
Copies of the following publications are available on request:
- Safety Data Sheet
- Application Manual
  Sikafloor® Marine-118 FC

PACKAGING INFORMATION

Bag	25 kg

BASIS OF PRODUCT DATA
All technical data stated in this document 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.

DISCLAIMER
The information, and, in particular, the recommendations relating to the application and enduse 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.