

Product Data Sheet

Version 06/2011 (10/2012)

Sikafloor® Marine Elastic

Water-Proofing Membrane

Technical Data

Chemical Base	Polymer-Modified Mortar
Colour	Light Grey
Cure Mechanism	Combination Hydraulic and Water Evaporation
Mixing Ratio (with cold, potable water) per 22 kg bag	Spatula-consistency - 4.8 L Brush-consistency - 6.1 L Roller-consistency - 7.5 L By weight - 22 to 34%
Density (freshly mixed)	1.5 kg/L approx
Density (dried)	1.4 kg/L approx
Substrate Temperature	5 to 35°C
Coverage per 22 kg bag (1 mm layer thickness)	13 m ² approx
Working Time	45 minutes approx
Ready for Foot Traffic ¹ (CQP 600-3) (dependent upon humidity and ventilation)	18 hours approx
Shelf Life (CQP ² 600-1) Stored in a cool, dry place below 25°C	12 months
¹ 23°C and 50% Relative Humidity; ² CQP = Corporate Quality Procedure.	

Description

Sikafloor® Marine Elastic is a one-component water-proofing membrane based on polymer-modified cement. Sikafloor® Marine Elastic is manufactured in accordance with ISO 9001 and ISO 14001 Quality Assurance Systems and tested according to the FTP Code system and approved according to the IMO Marine Equipment Directives.

Product Benefits

- Suitable for application on humid substrates;
- Primer-less application;
- Adjustable consistency;
- One-component, ready-to-mix;
- Easily applied using roller, brush or spatula.

Areas of Application

Sikafloor® Marine Elastic is applied on porous surfaces as a water-proofing layer in wet areas prior to the application of deck coverings such as tiles and natural stone, etc. This product is suitable for professional experienced users only. Tests with actual substrates under actual conditions must be performed to ensure adhesion and material compatibility.

Cure Mechanism

Sikafloor® Marine Elastic is a hydraulic cement that cures partly by evaporation. Sikafloor® Marine Elastic must harden prior to applying subsequent finishing materials.

Surface Preparation

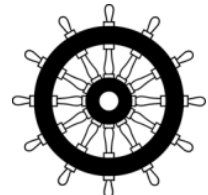
The surface has to be clean and free from dust, grease, oils and other substances which may impair adhesion.

Mixing Process

Each bag of Sikafloor® Marine Elastic is mixed with approximately 4.8 to a maximum of 7.5 litres of water, depending on the desired application method. The mixing time is approximately 3 to 4 minutes using a mounted propeller mixer. If mixed by hand, ensure that the powder is mixed completely (including bottom and side walls of the pail).

Application

Apply Sikafloor® Marine Elastic with: (i) a **spatula**, exerting good compacting pressure on the substrate; (ii) a **medium short-haired roller**, taking care to achieve a homogeneous and regular layer on the substrate; or (iii) a **brush**, with criss-crossing brush strokes to ensure a thorough-layer application. Sikafloor® Marine Elastic must be applied within 45 minutes of mixing. At temperatures above 35°C, the Working Time will be reduced to 30 minutes or less.



Application Limits	Ceramic tiles and natural stone may be applied over Sikafloor® Marine Elastic using a cementitious, medium-elasticity adhesive.
Curing	Following application and during the curing process, the finished areas should be protected from sunlight and draft for at least one day. After the first day, the area should be well-ventilated. Before covering Sikafloor® Marine Elastic with dense materials, ensure that the remaining moisture level is below 4%. Test procedure to determine the dryness (according to ASTM D 4263): (i) put a PE-plastic foil 1 m x 1 m on the surface of the applied mortar floor; (ii) tape the perimeter and leave for one day. Curing is complete when there is no water condensation on the foil or visible colour difference between the covered and uncovered surfaces.
Removal	Excess material can best be removed before cure with a trowel wipe. Uncured Sikafloor® Marine Elastic 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 suitable skin protection hand-cream.
Further Information	Copy of the following publications are available upon request: <i>Material Safety Data Sheet</i> and <i>Sikafloor® Marine Elastic Application Guide</i> .
Packaging	22 kg bags
Value Bases	All technical data stated in this Product Data Sheet are laboratory test-based. Current measured values may vary due to factors beyond our influence.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the current Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data for the appropriate type of substance.

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, within their shelf life. 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 recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.

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