Industry

Sikafloor® Marine Elastic

Water proofing in situ applied membrane

Technical Product Data

Chemical base		Polymer modified mortar
Colour		Grey
Cure mechanism		Combined hydraulic/ water evaporation
Density fresh mixed		1.5 kg/l approx.
Density dried		1.4 kg/l approx.
Mixing ratio with water (by weight)		22 – 34 %
Part of cold potable water per packaging unit (20 kg bag)	Spatula consistency Brush consistency Roller consistency	4.4 litres (22 %) 5.6 litres (28 %) 6.8 litres (34 %)
Substrate temperature		5 - 35 °C
Coverage per 20 kg bag (layer thickness 2 mm)		13 m² approx.
Working time		Ca. 45 min.
Ready to walk on[1] (CQP[2] 600-3)	depending on humidity and ventilation	18 hours approx.
Shelf life (CQP 600-1) Stored in a cool, dry place below 25 °C		12 months

[1] 23 °C / 50 % r.h. [2] Corporate Quality Procedure

Description

Sikafloor® Marine Elastic is a one component waterproofing membrane, based on polymer modified cement.
Sikafloor® Marine Elastic 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

- Applicable on humid substrates
- Primer less application
- Adjustable consistency
- One component, ready to mix
- Easy application by 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 finishing materials such as tiles, natural stones etc.
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 Elastic cures by way of hydraulic curing (evaporation of water).
Sikafloor® Marine Elastic must be hard before finishing materials are applied.

Method of Application

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

Mixing process
One bag of 20 kg of Sikafloor® Marine Elastic is mixed with 4.4 to 6.8 litres depending on desired application method. Mix the compounds thoroughly 3-4 minutes by propeller mounted mixer. If mixed by hand ensure the powder is mixed completely (bottom and side walls of the bucket).

Application
Apply Sikafloor® Marine Elastic with:
- Spatula , exerting a good compacting pressure on the substrate
- Medium-short hair roller, achieving a homogeneous and regular layer on the substrate
- Brush, by cross application between the layers

Sikafloor® Marine Elastic has to be applied within 45 minutes after mixing. At temperatures above 35 °C the open time will be reduced to 30 minutes or less.

Curing
After application, the finished areas should be protected against sunlight and draught during the curing process for at least one day after application. It is recommended to ensure good air ventilation after the first day. Before covering Sikafloor® Marine Elastic with dense materials 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.

Application of ceramic tiles on Sikafloor® Marine Elastic:
Ceramic tiles and natural stones can be applied using a cementitious medium–elasticity adhesive.

Removal
Excess material can best be removed before curing 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. Hands and exposed skin should be washed immediately with water. Use a suitable skin protection hand cream.

Further Information

Copies of the following publications are available on request:
- Safety Data Sheets
- Application Guide Sikafloor® Marine Elastic

Packaging Information

Bag	20 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 Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

Legal Notes

Further information available at:
www.sika.co.uk

Sika Limited
Industry
Watchmead
Welwyn Garden City
Herts, AL7 1BQ
Tel. +44 (0)1707 394444