

Sikafloor® Marine VEM

Self-smoothing visco-elastic damping mortar

Typical Product Data

Chemical base	Polymer modified cement mortar
Color	Grey
Cure mechanism	Hydraulic
Mixing ratio with cold, potable water by volume	per 16 kg bag
Density fresh mixed (CQP ¹ 599-3)	5.3 - 5.8 liters (180 – 195 oz)
Density cured ² (CQP 599-4)	1.45 g/cm ³ (12.1 lb/gal)
Density cured ² (CQP 599-4)	1.3 g/cm ³ (10.8 lb/gal)
Substrate temperature	5 - 35° C (40 - 95° F)
Application thickness	2 mm (0.08 in)
Coverage per 16 kg bag (layer thickness 2 mm (0.08 in))	6.0 m ² (65 ft ²)
Working time ³ (CQP 599-9)	20 minutes
Ready to walk on ³ (CQP 600-3)	depending on humidity and ventilation
Tensile strength ⁴ (CQP 036-1 / ISO 527)	12 hours
Elongation at break ⁴ (CQP 036-1 / ISO 527)	0.6 N/mm ² (90 psi)
Shore A (CQP 023-1)	55%
Shelf life (CQP 600-1)	75
Shelf life (CQP 600-1)	Stored in a cool, dry place below 25° C (77° F)
Shelf life (CQP 600-1)	12 months

¹⁾ Corporate Quality Procedure

²⁾ After 7 days

³⁾ 23° C (73° F) / 50% R.H.

⁴⁾ After 28 days

Description

Sikafloor® Marine VEM is a one component damping self-smoothing mortar based on polymer modified cement.

Sikafloor® Marine VEM 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

- Visco-elastic mortar
- Isocyanate free
- High damping factor
- Can be pumped
- One component, ready to mix
- Environmental friendly

Areas of Application

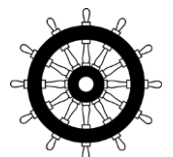
Sikafloor® Marine VEM is applied on interior decks in combination with Sikafloor® Marine 18 as well as with Sikafloor® Marine 118 FC. It is suitable for application in dry accommodation areas.

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.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, label and Safety Data Sheet, which are available on request at tsmh@us.sika.com.

Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product as set forth in the current Product Data Sheet, label and Safety Data Sheet prior to product use.

Industry



Cure Mechanism

Sikafloor® Marine VEM 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 VEM may be applied.

For the Sikafloor® Marine VEM application on aluminum or decks coated with a zinc rich shop primer, 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 contact the Technical Department of Sika Industry at tsmh@us.sika.com.

Mixing process

One bag Sikafloor® Marine VEM is mixed with 5.3 to 5.8 liters (180 to 195 oz of cold potable water. The mixing time is approx. 5 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 VEM has to be applied within 20 minutes after mixing. At temperatures above 35° C (95° F), the open time will be reduced to 10 minutes or less.

For advice on selecting and setting up a suitable pump system, contact the Systems 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 overnight (at least 12 hours) after application.

Before Sikafloor® Marine VEM is covered with Sikafloor® Marine 18 or Sikafloor® Marine 118 FC a coat of Sikafloor® Marine Primer-C is necessary.

Test procedure to determine the dryness (according ASTM D 4263)

- put a PE-plastic foil 1 m x 1 m (40 in x 40 in) 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 VEM 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 VEM 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 VEM

Packaging Information

Bag	16 kg
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Basis of Product Data

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.

Limited Product Warranty

Sika Corporation warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES IMPLIED OR EXPRESS SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, label and Safety Data Sheet, which are available on request at tsmh@us.sika.com. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product as set forth in the current Product Data Sheet, label and Safety Data Sheet prior to product use.

Further information available at:
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