

## PRODUCT DATA SHEET

# Sikafloor® Marine VEM

Self-smoothing visco-elastic damping mortar for interior decks

**TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)**

<b>Chemical base</b>		Polymer modified cement
<b>Color</b>		Grey
<b>CURE MECHANISM</b>		Hydraulic
<b>Density</b>	mixed	1.5 kg/l
	cured	1.3 kg/l
<b>Mixing ratio</b>	per 16 kg bag	5.3 – 5.8 litres
<b>Substrate temperature</b>		5 – 30 °C
<b>Application thickness</b>	max.	2 mm
<b>Coverage</b>	per 16 kg bag at layer thickness 2 mm	6 m <sup>2</sup>
<b>Working time (CQP599-9)</b>		30 minutes <sup>A</sup>
<b>Ready to walk on (CQP600-3)</b>	depending on humidity and ventilation	12 hours <sup>A</sup>
<b>Tensile strength (CQP036-2)</b>		0.6 MPa <sup>B</sup>
<b>Elongation at break (CQP036-2)</b>		55 % <sup>B</sup>
<b>Shore A (CQP023-1)</b>		75 <sup>B</sup>
<b>Shelf life</b>		12 months <sup>C</sup>

CQP = Corporate Quality Procedure

<sup>A)</sup> 23 °C / 50 % r. h.v<sup>B)</sup> after 28 days<sup>C)</sup> stored in a dry, cool place below 25 °C
**DESCRIPTION**

Sikafloor® Marine VEM is a 1-component damping, self-smoothing mortar based on polymer modified cement. It is specifically designed to be used in combination with Sikafloor® Marine-18, -118 FC or -190 mortars to reduce low frequency structure borne noise. Sikafloor® Marine VEM is 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, -118 FC and -190 mortars. It is suitable for application in dry and wet areas.

This product is suitable for experienced professional users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

## CURE MECHANISM

Sikafloor® Marine VEM cures by way of hydraulic curing.

## METHOD OF APPLICATION

### Surface Preparation

For 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 VEM may be applied. Sikafloor® Marine VEM 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.

### Mixing process

One bag of Sikafloor® Marine VEM is mixed with 5.3 to 5.8 liters cold potable water. The mixing time with a drilling machine and proper mixing paddles is approx. 5 minutes (not higher than 400 rpm).

Ensure the product is mixed homogeneously including bottom and side walls of the mixing bucket.

### Application

Apply the mortar with an appropriate notched trowel in order to get a layer thickness of 1.5 – 2 mm.

Sikafloor® Marine VEM has to be applied within 30 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.

## Removal

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

Fresh 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 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 VEM

## PACKAGING INFORMATION

Bag	16 kg
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## 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.

## PRODUCT DATA SHEET

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