

PRODUCT DATA SHEET

Sikafloor® Marine VEM X

Lightweight visco-elastic powder adhesive for interior decks and bulkheads

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	Polymer modified cement
Color	Grey
Density	mixed 1.4 kg/l cured 1.3 kg/l
Mixing ratio	water per bag for vertical - horizontal application 4 – 4.6 litres
Substrate temperature	5 – 30 °C
Application thickness	max. deck - bulkhead 2 – 3 mm
Coverage	per 16 kg bag at layer thickness 1 mm 14 m ²
Open time	20 minutes ^A
Working time (CQP599-9)	30 minutes ^A
Ready to walk on (CQP600-3)	depending on humidity and ventilation 16 hours ^A
Tensile strength (CQP036-2)	0.8 MPa ^B
Elongation at break (CQP036-2)	22 % ^B
Shore A (CQP023-1)	74 ^B
Shelf life	9 months ^C

CQP = Corporate Quality Procedure

^{A)} 23 °C / 50 % r. h.^{B)} after 28 days^{C)} stored in a dry, cool place below 25 °C
DESCRIPTION

Sikafloor® Marine VEM X is a 1-component light weight visco-elastic mortar where the consistency can be adjusted according to the required application. It is specifically designed to be used in combination with electro-galvanized steel plates to reduce low frequency structure borne noise.

Sikafloor® Marine VEM X is tested according to FTP Code system and approved according to the IMO Marine Equipment Directives.

PRODUCT BENEFITS

- Unique acoustic performance
- Primer-less in horizontal application
- Isocyanate free
- One component, ready to mix
- Adjustable consistency for vertical and horizontal applications
- Easy to apply

AREAS OF APPLICATION

Sikafloor® Marine VEM X is applied on interior decks and bulkheads as a visco-elastic adhesive in VEM Steel systems. It is suitable for application in wet and dry accommodation areas, in combination with Sikafloor® Marine levelling or acoustic systems.

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

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CURE MECHANISM

Sikafloor® Marine VEM X 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 adhesion. Rust has to be removed with a steel brush or other appropriate means, followed by vacuum cleaning. Note: The corrosion protection need to be intact prior the application of Sikafloor® Marine VEM X.

Applications on aluminum or zinc rich shop primer coated decks, require a tie coat of SikaCor® ZP Primer or another suitable tie coat.

Mixing process

One bag of Sikafloor® Marine VEM X is mixed with 4 to 4.6 liters cold potable water. The mixing time with a drilling machine and proper mixing paddles is approx. 5 minutes (not higher than 400 rpm).

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

Application

Apply the mortar with an appropriate notched trowel to get a layer thickness according to the selected application. The product can be applied on both vertical and horizontal surfaces. For vertical application two methods are possible with and without stud bolts. Consult the relevant Application manual for detailed application information.

Sikafloor® Marine VEM X 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.

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 X 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.

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 Steel
 - Sikafloor Marine VEM Steel Vertical
 - Sikafloor Marine VEM Steel Studbolt version

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.

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