

## PRODUCT DATA SHEET

# Sikafloor® Marine-530

IMO approved self-levelling, 2-component polyurethane decorative resin

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

Properties	Sikafloor® Marine-530 (A)	Sikafloor® Marine-530 (B)
Chemical base	Polyurethane	Isocyanate
Color (CQP001-1)	Colored	Transparent
	mixed	Various colors available (see color design chart)
Density	mixed	1.40 kg/l
		1.36 kg/l
Solid content		100 %
Mixing ratio	by weight	79 : 21
Application temperature	substrate / climate	15 – 30 °C <sup>A, B</sup>
Shore A hardness (CQP023-1 / ISO 7619-1)		80
Tensile strength (DIN 53504)		8 MPa
Elongation at break (DIN 53504)		180 %
Pot-life	10 °C	21 minutes
	20 °C	15 minutes
	30 °C	12 minutes
Shelf life		9 months <sup>C</sup>
		12 months <sup>C</sup>

CQP = Corporate Quality Procedure <sup>A)</sup> Substrates must be 3 °C above the dew point

<sup>B)</sup> max. 80 % r.h.

<sup>C)</sup> stored in sealed container in up-right position in a dry place between 5 and 30 °C, protected from direct sunlight

**DESCRIPTION**

Sikafloor® Marine-530 is a self-levelling 2-component polyurethane and can be used as interior decorative resin and levelling compound for decks in both interior and exterior. Sikafloor® Marine-530 has been tested according to FTP Code system and approved according the IMO Marine Equipment Directives.

**PRODUCT BENEFITS**

- Good working characteristics
- Very low VOC emission
- IMO Approved
- Solvent-free (ISO 16001-6)
- Permanently elastic
- Good mechanical resistance

**AREAS OF APPLICATION**

Sikafloor® Marine-530 is designed as a component of the Sikafloor® Marine Deco systems in ship and boat construction. Sikafloor® Marine-530 can be used for smoothing of surface irregularities of metallic floors (steel, aluminum) as primary deck covering material. Sikafloor® Marine-530 is IMO approved up to a max. of 2.8 kg/m<sup>2</sup> as per the corresponding Application Manual.

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

## CURE MECHANISM

The curing of Sikafloor® Marine-530 takes place by a chemical reaction of the two components.

Higher temperatures speed up and lower temperatures slow down the curing process.

## CHEMICAL RESISTANCE

Chemical resistance is dependent from the topcoat. In case of chemical exposure conduct project related testing.

## METHOD OF APPLICATION

### Surface preparation

Steel decks need to be prepared to a cleanliness factor of SA 2.5 (ISO 8501). Ensure decks are free of dirt, grease, oil and loose particles. Aluminum decks shall not be shot blasted but need to be sanded instead, followed by vacuum cleaning. The prepared metallic surfaces need to be primed with SikaCor® ZP Primer. Cementitious substrates have to be mechanically prepared to remove laitance. All dust, loose and friable material must be completely removed by vacuum before the next application.

Apply Sikafloor® -150 / -151 as a primer ensuring the substrate moisture content is  $\leq 4\%$ .

The application area must be protected against weather (draught, etc.) to fulfill the referenced substrate and climate conditions.

### Mixing process

Prior to mixing both components, stir part A with a proper mixing paddle. Add part B and mix continuously for 3 minutes until a uniform mix has been achieved. To ensure an homogenous mixture pour material into another container and mix again for at least 1 minute.

Mix with mixing paddles not higher than 300 rpm's to minimize air entrapment.

For special areas (i.e. sloped areas) it may require to use quartz sand or Sika® Extender T.

### Application

Sikafloor® Marine-530 is poured and spread evenly by means of a notched trowel or pin-rake on a properly levelled surface. If needed pre-level with Sikafloor® Marine-530 or another suitable material. In critical areas a spike roller can be used to improve levelling. Always consider the pot life to keep a wet edge.

In case of deck levelling or sloped surfaces contact Technical Department of Sika Industry.

Prior to application, always consult the most current corresponding Application Manual.

## Curing

Indications regarding curing details see table below.

Temperature	Foot traffic	Light traffic <sup>A</sup>	Full cure
10 °C	36 hours	48 hours	72 hours
20 °C	24 hours	36 hours	60 hours
30 °C	16 hours	24 hours	48 hours

<sup>A)</sup> food trolleys and light rolling equipments on soft wheels

## Removal

Uncured Sikafloor® Marine-530 can be removed from tools and equipment with Sika® Colma Cleaner or another suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin have to be washed immediately using hand wipes such as Sika® Cleaner-350H or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

## Application limits

In case of highly exposed interior UV areas Sikafloor® Marine-530 needs to be protected by Sikafloor® Marine-505 or use Sikafloor® Marine-590. Black synthetic deck caulking excluded.

Freshly applied Sikafloor® Marine-530 must be protected from damp, condensation and water for at least 5 days. Uncured material reacts in contact with water (foaming).

## STORAGE CONDITIONS

Sikafloor® Marine-530 (B) has to be kept between 5 °C and 30 °C in a dry place. Do not expose it to direct sunlight. After opening of the packaging, the contents need to be protected against moisture. Minimum temperature during transportation is 5 °C.

## 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 Sheets
- Application Manual  
Sikafloor® Marine-530

## PACKAGING INFORMATION

Sikafloor® Marine-530 (A)

Container	15.8 kg
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Sikafloor® Marine-530 (B)

Container	4.2 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

Sikafloor® Marine-530  
Version 05.01 (03 - 2023), en\_AE  
012119015304001000

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