

## 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)
<b>Chemical base</b>		Polyurethane	Isocyanate
<b>Color (CQP001-1)</b>	mixed	Coloured	Yellowish
		Various colours available contact customer service DK	
<b>Density</b>	mixed	1.2 kg/l	1.2 kg/l
		1.2 kg/l	
<b>Solid content</b>		100 %	
<b>Mixing ratio</b>	by weight	79 : 21	
<b>Application temperature</b>	substrate / climate	10 – 30 °C <sup>A, B</sup>	
<b>Working time</b>	10 °C	21 minutes	
	20 °C	15 minutes	
	30 °C	12 minutes	
<b>Shore A hardness (CQP023-1 / ISO 48-4)</b>		83	
<b>Tensile strength (DIN 53504)</b>		8 MPa	
<b>Elongation at break (DIN 53504)</b>		180 %	
<b>Shelf life</b>		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 2-component, polyurethane, elastic, low VOC self-smoothing marine flooring resin. It is part of the Sikafloor® Marine decorative resin systems.

Sikafloor® Marine-530 has been tested according to FTP Code system and approved according to the IMO Marine Equipment Directives.

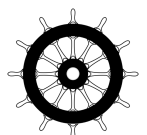
**PRODUCT BENEFITS**

- Good application characteristics
- Very low VOC emission
- IMO Approved
- Solvent-free
- Longterm elastic
- Good mechanical resistance
- IMO approved, as floor covering up to a max. of 2.6 kg/m<sup>2</sup>

**AREAS OF APPLICATION**

Sikafloor® Marine-530 can be used interior as wearing layer levelling compound in ship and boat construction. For interior comfort floor solution and exterior as a black deck caulking in the Sikafloor® Marine Deco Teak solutions.

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

For advice contact the Technical Department of Sika Industry.

## METHOD OF APPLICATION

### Surface preparation

In the case of cementitious substrates, it must be ensured that the laitance layer is completely removed. This is usually achieved by grinding. All dust, loose and friable material must be completely removed by vacuum before the next application.

Repairs to the substrate, filling of cracks, holes/voids or surface levelling must be carried out first. Repair areas must be cured before applying primers.

Ensure the substrate moisture content is equal or less than 4 % (Calcium carbide method (CM-method)). Apply Sikafloor®-150/-151 as a primer to obtain a closed pore free surface.

2-C polyurethane substrates need usually to be sanded with 40 – 80 grit sanding paper up to diamond disc. In case the substrate is not clean, it is required to clean it before the sanding process to ensure no debris is sanded into the surface. All dust, loose and friable material must be completely removed from the surface by vacuum cleaning before next application.

For more information and other substrates refer to the Sika Pre-Treatment Chart for Sikafloor® Marine Applications.

The application area must be protected against dirt, sun light, water and draught.

### Mixing process

Prior to mixing all components, stir part A using the electric mixing equipment.

Add part B to part A and mix continuously for 2 minutes until a uniformly mix has been obtained. To ensure thorough mixing pour materials into a clean container and mix again for at least 1 minute to achieve a smooth consistent mix.

Excessive mixing must be avoided to minimize air entrainment.

For areas with cambers or slopes (1 – 3 %) SikaLiquid Thickener or Sika® Extender T may be added to adapt the consistency of the product.

Remark: By adapt the consistency, the de-airing properties may be affected.

### Application

Sikafloor® Marine-530 is poured and spread evenly by means of a suitable trowel or pin leveller. A spike roller may be used to improve levelling and de-airing.

For liquid application on cambers and slopes multiple applications steps might be needed.

A seamless finish can be achieved when a "wet" edge is maintained during application.

## Curing

Indications regarding curing details see table below.

Temperature	Walk- and overcoatable	Full loading
10 °C	36 hours	7 days
20 °C	24 hours	7 days
30 °C	16 hours	7 days

## 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

Beware of condensation. The substrate and uncured applied product must be at least 3 °C above dew point to reduce the risk of condensation.

Freshly applied Sikafloor® Marine-530 must be protected from damp, condensation and water for at least 1 day. Uncured material reacts in contact with water (foaming).

For consistent color matching, ensure the product in each area is applied from the same batch numbers.

For air heating use only electric powered warm air blower systems.

If Sikafloor® Marine-530 is used in interior areas and exposed to UV light, the floor must be protected by a pigmented sealer, such as Sikafloor® Marine-505.

## STORAGE CONDITIONS

The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.

After opening of the packaging, the contents need to be protected against moisture.

## 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
- Sika Pre-Treatment Chart for Sikafloor® Marine Application

## 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

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