BUILDING TRUST

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	1.21 kg/l
		1.36 kg/l	
Solid content		100 %	
Mixing ratio	by weight	79 : 21	
Application temperature	substrate / climate	15 – 30 °C [A, B]	
Shore A hardness (CQP023-1 / ISO 48-4)		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 [C]	12 months [C]

CQP = Corporate Quality Procedure
B) max. 80 % r.h.
A) Substrates must be 3 °C above the dew point
C) 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/m² 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 ≤ 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 homogenious 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 required to use quartz sand or Sika® Extender T.

Application
Sikafloor® Marine-530 is poured and spread evenly by means of a notched trowel or pinrake 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 [A]	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

[A] 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

Sikafloor® Marine-530 (B)

Container	4.2 kg

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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