

## PRODUCT DATA SHEET

# Sikafloor® Marine-570

IMO approved self-levelling 2-component polyurethane decorative resin

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

Properties	Sikafloor® Marine-570 (A)	Sikafloor® Marine-570 (B)
<b>Chemical base</b>	Polyurethane	Isocyanate
<b>Color (CQP001-1)</b>	Colored	Transparent
	mixed	Brown colors available (see color design chart)
<b>Density</b>	1.5 kg/l	1.2 kg/l
	mixed	1.4 kg/l
<b>Solid content</b>	100 %	
<b>Mixing ratio</b>	by weight 79 : 21	
<b>Application temperature</b>	substrate / climate 15 – 30 °C <sup>A, B</sup>	
<b>Shore D hardness (CQP023-1 / ISO 48-4)</b>	67	
<b>Tensile strength (DIN 53504)</b>	20 MPa	
<b>Elongation at break (DIN 53504)</b>	100 %	
<b>Pot-life</b>	10 °C	30 minutes
	20 °C	21 minutes
	30 °C	18 minutes
<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-570 is a self-levelling 2-component polyurethane decorative floor resin and part of the Sikafloor® Marine Deco systems. Sikafloor® Marine-570 has been tested according to FTP Code system and approved according to the IMO Marine Equipment Directives.

**PRODUCT BENEFITS**

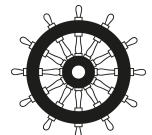
- Good working characteristics
- IMO approved
- Good mechanical resistance
- Very low VOC emission
- Solvent-free (ISO 16001-6)
- Longterm elastic

**AREAS OF APPLICATION**

Sikafloor® Marine-570 is designed as a component of the Sikafloor® Marine Deco systems. It is designed for mechanical resistant internal flooring in ship and boat construction and as final compound in the Sikafloor® Marine Deco system for interior and exterior use.

This product is suitable for experienced professional users only.

Tests with actual substrates and conditions have to be performed ensuring workability, adhesion and material compatibility.



## CURE MECHANISM

The curing of Sikafloor® Marine-570 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

Sikafloor® Marine-570 is installed as a black primary deck covering and/or as floor covering in all colors.

Metallic decks need to be prepared to SA 2.5 (ISO 8501). Aluminum decks must not be shot blasted. The prepared metallic surfaces need to be clean, free of dirt, grease, oil and loose particles before the SikaCor® ZP Primer is applied. Cementitious substrates have to be mechanically prepared to remove laitance.

Clean the surface and ensure a surface moisture content of  $\leq 4\%$  before applying Sikafloor®-150 /-151 primer.

The application area must be protected against weather and direct sunlight.

If IMO is required, get in contact with Sika to choose an appropriate combination of the Sikafloor® Marine Deco system.

### Mixing process

Prior to mixing, stir part A. Add part B and mix continuously for 2 minutes until a homogeneous mix has been obtained.

Pour material into another container and mix again for at least 1 minute.

Use double mixing paddles not higher than 300 rpm to minimize air entrapment.

For areas with cambers or slopes between 1 % and 3 % use Sikafloor® Marine Liquid PU Thickener. The dosage is between 1 % and 2 % in weight depending on the actual situation. For areas with higher cambers it may be required to add additional 1 % to 2 % of Sika® Extender T or Aerosil by weight to the mix. Alternatively, it is possible to reduce the layer thickness and apply multiple layers.

Note: By increasing the viscosity de-airing properties can be affected.

### Application

Sikafloor® Marine-570 is poured and spread evenly by means of a notched trowel or pin-rake. In critical areas a spike roller can be used to improve levelling and de-airing. For deeper sections (e.g. unevenness), it might be necessary to pre-level these sections. Ensure the pre-leveled sections have achieved "foot traffic" cure level prior to proceeding.

For liquid application on cambers and slopes multiple applications steps may be needed. Curing speed depends on temperature and layer thickness. Always consider the pot life to keep a wet edge.

## Curing

Instructions regarding curing details see table below.

Temperature	Foot traffic	Light traffic <sup>A</sup>	Full cure
10 °C	24 hours	48 hours	72 hours
20 °C	18 hours	24 hours	60 hours
30 °C	16 hours	18 hours	48 hours

A) food trolleys and light rolling equipments on soft wheels

## Removal

Uncured Sikafloor® Marine-570 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 shall 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

Freshly applied Sikafloor® Marine-570 must be protected from moisture, condensation and water for at least 1 days. Uncured material reacts in contact with water (foaming).

## STORAGE CONDITIONS

Both components of Sikafloor® Marine-570 have 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 Sheet

## PACKAGING INFORMATION

Sikafloor® Marine-570 (A)

Container	15.8 kg
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Sikafloor® Marine-570 (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.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by contacting SIKA's Technical Service Department via email at [tsmh@us.sika.com](mailto:tsmh@us.sika.com). Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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## PRODUCT DATA SHEET

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