

PRODUCT DATA SHEET

Sikafloor® Marine-505

Waterbased 2-component polyurethane pigmented matt topcoat for internal decks

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

| Properties | Sikafloor® Marine-505 (A) | Sikafloor® Marine-505 (B) |
|--------------------------------|--|---------------------------|
| Chemical base | Acrylic dispersion | Isocyanate |
| Color (CQP001-1) | Colored | Transparent |
| Density | 1.3 kg/l | 1.1 kg/l |
| | mixed (+ 7 % H ₂ O) | 1.2 kg/l |
| Solid content | 58 % | |
| Mixing ratio | by weight (A:B) 85 : 15 | |
| Application temperature | substrate / climate 10 – 30 °C ^{A, B} | |
| Coat weight | 130 – 150 g/m ² | |
| Pot-life | at 10 °C 50 minutes | |
| | at 20 °C 30 minutes | |
| | at 30 °C 20 minutes | |
| Shelf life | 6 months ^C | 12 months ^C |

CQP = Corporate Quality Procedure

^{A)} Substrate must be 3 °C above dew point

^{B)} Maximum 80 % r. h.

^{C)} stored in sealed container in up-right position in a dry place between 5 and 30 °C, protected from direct sunlight

DESCRIPTION

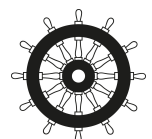
Sikafloor® Marine-505 is a water based 2-component polyurethane colored matt topcoat for internal decks. It is used as a component of the internal Sikafloor® Marine Deco systems. Sikafloor® Marine-505 has been tested according to the FTP Code system and approved according to the IMO Marine Equipment Directives.

PRODUCT BENEFITS

- Very low VOC emission
- Good UV resistance
- IMO approved
- Excellent working characteristics
- Easy to clean

AREAS OF APPLICATION

Sikafloor® Marine-505 is designed as a component of the Sikafloor® Marine Deco systems for internal decks in ship and boat construction. This includes wet and dry areas. 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-505 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 on chemical resistance contact the Technical Department of Sika Industry.

METHOD OF APPLICATION

Surface Preparation

Dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum. Ensure that substrates are clean, dry and free from all contaminants such as dirt, oil, grease, coatings and other surface treatments.

Mixing process

Prior to mixing both components, stir part A with a proper mixing paddle.

After adding part B mix continuously for 3 minutes until a uniform mix has been achieved. To obtain a smoother surface, 5 – 7 % water can be added which would require mixing for another minute. Wait 1 minute and mix again for 1 minute. Note: Adding of water from 1 mix to another has to be very accurate or variations in finish will occur. To ensure homogenous mixing pour materials into another container and mix again for at least 1 minute.

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

After mixing wait 10 minutes before start working with Sikafloor® Marine-505.

Application

Prior to application confirm relative air humidity and dew point.

When starting to coat, make sure the coating rollers are well saturated with coating.

After proper mixing the product is poured and spread out on the floor in respect of the coat weight. Note: Keep an eye on the pot life since the end of the pot-life is not visible.

Roll with a larger 50 cm roller in one direction cross the working direction to eliminate lap-marks.

Curing

Indications regarding curing details see table below.

| Temperature | Foot traffic | Light traffic | Full cure |
|-------------|--------------|---------------|-----------|
| 10 °C | 36 hours | 48 hours | 6 days |
| 20 °C | 16 hours | 24 hours | 4 days |
| 30 °C | 12 hours | 18 hours | 3 days |

Removal

Uncured Sikafloor® Marine-505 can be removed from tools and equipment with water. 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

Freshly applied Sikafloor® Marine-505 must be protected from damp, condensation and water for at least 5 days. Uncured material reacts in contact with water (foaming).

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

PACKAGING INFORMATION

Sikafloor® Marine-505 (A)

| | |
|-----------|--------|
| Container | 8.5 kg |
|-----------|--------|

Sikafloor® Marine-505 (B)

| | |
|-----------|--------|
| Container | 1.5 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.

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 or by contacting SIKA's Technical Service Department via email at 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.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.** Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling +1 800-933-7452.

PRODUCT DATA SHEET

Sikafloor® Marine-505
Version 03.01 (07 - 2024), en_US
012119015054001000

Sika Corporation

30800 Stephenson Highway
Madison Heights, MI 48071
U.S.A.
Telephone: +1 248-577-0020
Email: tsmh@us.sika.com
www.sikausa.com

