

PRODUCT DATA SHEET

Sikafloor® Marine-595

Self-leveling 2-component PUR resin with low thermal conductivity / density

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

| Properties | Sikafloor® Marine-595 (A) | Sikafloor® Marine-595 (B) |
|---|--|---|
| Chemical base | Polyurethane | Isocyanate |
| Color (CQP001-1) | Colored | Transparent |
| | mixed | Various colors available (see color design chart) |
| Density | 0.86 kg/l | 1.16 kg/l |
| | mixed | 0.97 kg/l |
| Solid content | 100 % | |
| Mixing ratio | by weight 41 : 25 | |
| Application temperature | substrate / climate 15 – 30 °C ^{A, B} | |
| Shore A hardness (CQP023-1 / ISO 7619-1) | 90 | |
| Tensile strength (DIN 53504) | 8.5 MPa | |
| Elongation at break (DIN 53504) | 50 % | |
| Pot-life | 15 °C | 150 minutes |
| | 20 °C | 100 minutes |
| | 30 °C | 70 minutes |
| Shelf life | 9 months ^C | 12 months ^C |

CQP = Corporate Quality Procedure ^{A)} Substrate must be 3 °C above the dew point

^{B)} max. 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-595 is a self-leveling aliphatic 2-component polyurethane decorative floor resin, part of the Sikafloor® Marine Deco systems.

PRODUCT BENEFITS

- Low thermal conductivity
- Low density
- Cool feeling
- Permanently elastic
- Very high yellowing resistance
- Solvent-free (ISO 16001-6)
- Very low VOC emission
- Solvent-free
- Very good working characteristics

AREAS OF APPLICATION

Sikafloor® Marine-595 is designed as part of Sikafloor® Marine Deco systems as synthetic teak decking solution with patented Sika Cool Technology, for external decks in shipbuilding, cruise and leisure boat construction. 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-595 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

Sikafloor® Marine-595 is installed on top of the primary deck covering or leveling compound such as SikaTransfloor®-352 or Sikafloor® Marine-530. In case of Sika®Transfloor-352, the top layer must be sanded and the gloss finish needs to be removed. All dust, loose and friable material must be completely removed from the surface before application of Sikafloor® Marine-595.

The application area must be protected against weather to fulfill referenced substrate and climatic 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 double mixing paddles not higher than 300 rpm's to minimize air entrapment. For sloped areas it may be required to use suitable Sikafloor® Marine liquid thickener and/or accelerator. For heavy slopes areas Sika® Extender T or Aerosil may be used.

Application

For deeper sections (e.g. unevenness), it might be necessary to pre-level these in advance and let it cure before flooring process. Sikafloor® Marine-595 is poured and spread evenly to the desired thickness by means of a notched trowel or pinrake. In critical areas a spike roller can be used to improve levelling. Always consider the pot life to keep a wet edge.

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

Curing

Indication regarding curing details see table below:

| Temperature | Foot traffic | Light traffic ^A | Full cure |
|-------------|--------------|----------------------------|-----------|
| 15 °C | 16 hours | 32 hours | 48 hours |
| 20 °C | 12 hours | 16 hours | 48 hours |
| 30 °C | 8 hours | 12 hours | 24 hours |

^{A)} food trolleys and light rolling equipment on soft wheels

Removal

Uncured Sikafloor® Marine-595 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-595 must be protected from damp, condensation and water for at least 1 day. Uncured material reacts in contact with water (foaming). During application, care must be taken that no drops of sweat get onto the fresh Sikafloor® Marine-595 coating (wear sweat bands). Refer to corresponding Application Manual.

STORAGE CONDITIONS

Both components of Sikafloor® Marine-595 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 Sheets
 - Application Manual
- Sikafloor® Marine-595

PACKAGING INFORMATION

Sikafloor® Marine-595 (A)

| | |
|-----------|--------|
| Container | 8.2 kg |
|-----------|--------|

Sikafloor® Marine-595 (B)

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

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 end use 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

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