

PRODUCT DATA SHEET

Sikaflex®-298 FC

Slightly thixotropic fast skinning bedding compound for marine applications

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-component polyurethane
Color (CQP001-1)	Black
Cure mechanism	Moisture-curing
Density (uncured)	1.2 kg/l
Non-sag properties (CQP061-1)	Slightly thixotropic
Application temperature	10 – 35 °C
Skin time (CQP019-1)	50 minutes ^A
Curing speed (CQP049-1)	(see diagram 1)
Shrinkage (CQP014-1)	6 %
Shore A hardness (CQP023-1 / ISO 48-4)	25
Tensile strength (CQP036-1 / ISO 527)	1.2 MPa
Elongation at break (CQP036-1 / ISO 527)	400 %
Tear propagation resistance (CQP045-1 / ISO 34)	4 N/mm
Service temperature (CQP509-1 / CQP513-1)	-50 – 90 °C
Shelf life	unipack 12 months ^B pail 9 months ^B

CQP = Corporate Quality Procedure

^A) 23 °C / 50 % r. h.^B) storage below 25 °C
DESCRIPTION

Sikaflex®-298 FC is a slightly thixotropic 1-component polyurethane adhesive which cures on exposure to atmospheric humidity. It is used for Teak deck bedding.

Sikaflex®-298 FC meets the regulations set out by the International Maritime Organization (IMO).

PRODUCT BENEFITS

- Fast skin formation
- Slightly thixotropic
- Sound deadening properties
- Elastic behavior
- Contains no highly inflammable solvents

AREAS OF APPLICATION

Sikaflex®-298 FC is suitable for bonding deck covering materials made from synthetic resins (except polyethylene and polypropylene), and for bedding-in of teak plank decking laid on top of the sub deck surface. Suitable substrates include GRP, marine plywood, steel, aluminum sealed with an anti-corrosion coating (epoxy or polyurethane-acrylic based) and stainless steel.

Sikaflex®-298 FC is a faster skinning version of the Sikaflex®-298. Consider the faster skinning time if used under elevated temperature and/or higher humidity.

Sikaflex®-298 FC is suitable for experienced professional users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

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CURE MECHANISM

Sikaflex®-298 FC cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram 1).

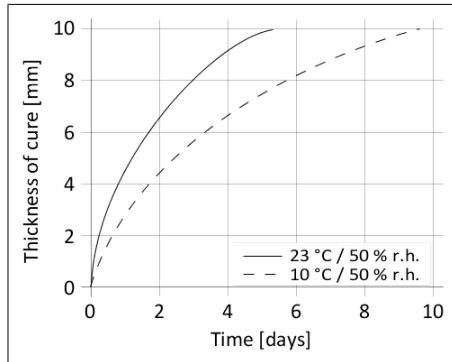


Diagram 1: Curing speed Sikaflex®-298 FC

CHEMICAL RESISTANCE

Sikaflex®-298 FC is generally resistant to fresh water, seawater, diluted acids and diluted caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, glycolic alcohol, concentrated mineral acids and caustic solutions or solvents.

METHOD OF APPLICATION

Surface preparation

Surfaces must be clean, dry and free from grease, oil, dust and contaminants.

Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond. Suggestions for surface preparation may be found on the current edition of the appropriate Sika® Pre-treatment Chart. Consider that these suggestions are based on experience and have in any case to be verified by tests on original substrates.

Application

Sikaflex®-298 FC can be processed between 10 °C and 35 °C but changes in reactivity and application properties have to be considered. The optimum temperature for substrates and adhesive is between 15 °C and 25 °C. The adhesive is applied over large surface areas with a notched spreader (notch depth approx. 4 mm). The consumption is approx. 1.2 l per m². If the substrates to be bonded are impervious to moisture or if an accelerated rate of cure is required, the adhesive could be lightly sprayed with a water mist shortly before the substrates are joined together (use an aerosol spray or spray gun to apply approx. 10 g water per m²). Avoid air entrapment when joining the parts or filling joints. Apply firm pressure when bringing components together and keep the bond under pressure for at least 3 hours until the adhesive has set.

The open time is significantly shorter in hot and humid climate. The parts must always be installed within the open time. Never join bonding parts if the adhesive has built a skin.

Removal

Uncured Sikaflex®-298 FC can be removed from tools and equipment with Sika® Remover-208 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!

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
- Pre-treatment Chart
For Marine Application
- General Guidelines
Bonding and Sealing with 1-component Sikaflex®

PACKAGING INFORMATION

Unipack	600 ml
Pail	10 l

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

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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Sika Danmark A/S
Hirsemarken 5
3520 Farum
Tlf. +45 48 18 85 85
www.sika.dk

