

## PRODUCT DATA SHEET

# Sikaflex<sup>®</sup>-290 DC PRO

The Professional Deck Caulking Compound

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

Chemical base	1-component polyurethane
Color (CQP001-1)	Black
Cure mechanism	Moisture-curing
Density (uncured)	1.3 kg/l (10.8 lb/gal)
Application temperature	ambient 5 – 35 °C (41 – 95 °F)
Skin time (CQP019-1)	90 minutes <sup>A</sup>
Curing speed (CQP049-1)	(see diagram 1)
Shrinkage (CQP014-1)	3 %
Shore A hardness (CQP023-1 / ISO 48-4)	40
Tensile strength (CQP036-1 / ISO 527)	3 MPa (430 psi)
Elongation at break (CQP036-1 / ISO 527)	600 %
Tear propagation resistance (CQP045-1 / ISO 34)	10 N/mm (55 pli)
Service temperature (CQP513-1)	-50 – 90 °C (-58 – 194 °F)
Shelf life	unipack 12 months <sup>B</sup>

CQP = Corporate Quality Procedure

<sup>A</sup>) 23 °C (73 °F) / 50 % r. h.<sup>B</sup>) storage below 25 °C (77 °F)
**DESCRIPTION**

Sikaflex<sup>®</sup>-290 DC PRO is a 1-component polyurethane based joint sealing compound, specifically formulated for caulking joints in traditional timber marine decking. It exhibits excellent weathering resistance and is therefore well suited for highly exposed open joints within the maritime environment. The sealing compound cures to form a flexible elastomer which allows a fast and easy sanding process.

Sikaflex<sup>®</sup>-290 DC PRO meets the requirements set out by the International Maritime Organisation (IMO).

**PRODUCT BENEFITS**

- Excellent weathering resistance
- Robust and durable
- Easy and fast sandable
- Ideal flow behavior for application
- Long toolability
- Unique aspect
- Resistant to seawater and fresh water

**AREAS OF APPLICATION**

Sikaflex<sup>®</sup>-290 DC PRO is designed for caulking of joints in traditional timber decking for boat-, yacht and commercial ship constructions. This product 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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Sikaflex<sup>®</sup>-290 DC PROVersion 03.01 (04 - 2023), en\_US  
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## CURE MECHANISM

Sikaflex®-290 DC PRO 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).

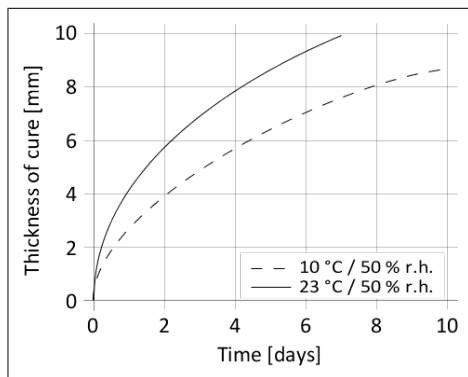


Diagram 1: Curing speed for Sikaflex®-290 DC PRO

## CHEMICAL RESISTANCE

Sikaflex®-290 DC PRO offers effective long-term resistance to fresh water, seawater and mild aqueous cleaning agents. The sealant is not resistant to solvents, acids, caustic solutions and chlorine containing cleaners. A brief contact with fuels or lubricants has no significant effect on the durability of the sealant.

## METHOD OF APPLICATION

### Surface Preparation

Surfaces must be clean, dry and free from grease, oil and dust. In case of timber the use of an adequate Primer, e.g. Sika® Primer-215, is mandatory. Additional surface treatment, for example for deck perimeter sealing, depends on the specific nature of the substrates. Therefore all recommendations must be determined by preliminary tests.

## Application

For satisfactory results the adhesive must be applied with adequate equipment such as a piston operated application gun.

Sikaflex®-290 DC PRO can be processed between 5 °C and 35 °C (41 °F and 95 °F) but changes in reactivity as well as application properties need to be considered. The optimum process temperature (substrates, climate and product) is between 15 °C and 25 °C (59 °C and 77 °F).

## Removal

Uncured Sikaflex®-290 DC PRO 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 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.

It is highly recommended to use a suitable teak maintenance system to preserve the teak deck. Systems must be tested for suitability and compatibility prior to the use.

Copies of the following publications are available on request:

- Safety Data Sheets
- Sika Pre-treatment Chart
- For 1-component Polyurethanes
- General Guidelines
- Bonding and Sealing with Sikaflex®

## PACKAGING INFORMATION

Unipack	600 ml
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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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