BUILDING TRUST

PRODUCT DATA SHEET

Sikaflex®-290 DC PRO

The Professional Deck Caulking Compound

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base		1-component polyurethane
Colour (CQP001-1)		Black
Cure mechanism		Moisture-curing
Density (uncured)		1.3 kg/l
Application temperature	ambient	5 – 35 °C
Skin time (CQP019-1)		90 minutes A
Curing speed (CQP049-1)		(see diagram)
Shrinkage (CQP014-1)		3 %
Shore A hardness (CQP023-1 / ISO 48-4)		40
Tensile strength (CQP036-1 / ISO 527)		3 MPa
Elongation at break (CQP036-1 / ISO 527)		600 %
Tear propagation resistance (CQP045-1 / ISO 34)		10 N/mm
Service temperature (CQP513-1)		-50 – 90 °C
Shelf life	cartridge /unipack	12 months B
	pail / drum	9 months B

CQP = Corporate Quality Procedure   A) 23 °C / 50 % r. h.   B) storage below 25 °C

DESCRIPTION

Sikaflex®-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®-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®-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.

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).
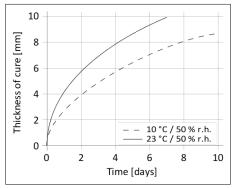

Diagram 1: Curing speed for Sikaflex®-290 DC PRO

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-290 DC, 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 pump, dosing units or piston operated application guns.
Sikaflex®-290 DC PRO can be processed between 5 °C and 35 °C 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.

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 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.
It is highly recommended using the Sika® Teak Maintenance System composed of Sika® Teak C+B and Sika® Teak Oil to preserve the teak deck.
Copies of the following publications are available on request:

- Safety Data Sheets
- Sika Marine Application Guide
- Sika Pre-Treatment Chart
  For Marine Applications
- General Guidelines
  Bonding and Sealing with Sikaflex®

PACKAGING INFORMATION

Cartridge	300 ml
Unipack	600 ml
	1000 ml
Pail	23 l
Drum	195 l

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet 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 Material 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 enduse 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.