Industry

Sikaflex®-290 DC

Weatherproof deck caulking sealants

Technical Product Data

Properties	Sikaflex®-290 DC
Chemical base	1-C polyurethane
Colour (CQP[1] 001-1)	Black
Cure mechanism	Moisture-curing
Density (uncured) (CQP 006-4)	1.3 kg/l approx.
Sagging properties	Thixotropic, non-sag
Application temperature	Room temperature
Tack free time[2] (CQP 019-1)	70 min. approx.
Curing speed (CQP 049-1)	(see diagram)
Shrinkage (CQP 014-1)	3% approx.
Shore A-hardness (CQP 023-1 / ISO 868)	40 approx.
Tensile strength (CQP 020-3 / ISO 8339)	3 N/mm^2 approx.
Elongation at break (CQP 020-4 / ISO 8339)	600% approx.
Tear propagation resistance (CQP 045-1 / ISO 34)	10 N/mm approx.
Movement accommodation factor	10%
Service temperature (CQP 513-1)	-40 - 90°C (-40 - 195°F)
Shelf life (storage below 25°C) (CQP 016-1)	12 months for cartridges / unipacks 9 months for pail / drums

[1] CQP= Corporate Quality Procedures [2] 23°C / 50% r.h.

Description

Sikaflex®-290 DC is a 1-c UV-resistant polyurethane based joint sealing compounds specially formulated for caulking joints in traditional timber marine decking. The sealing compound cures to form a flexible elastomer which can be sanded.
Sikaflex®-290 DC meets the requirements set out by the International Maritime Organisation (IMO). Sikaflex®-290 DC is manufactured in accordance with the ISO 9001 / 14001 quality assurance system and with the responsible care program.

Product Benefits

- 1-C formulation
- Non-corrosive
- Sandable
- Resistant to UV light and weathering
- Resistant to seawater and fresh water

Areas of Application

Sikaflex®-290 DC is used exclusively for caulking of the joints in traditional timber decking for boat- and yacht construction (secondary sealing).
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 cures by reaction with atmospheric humidity. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram)

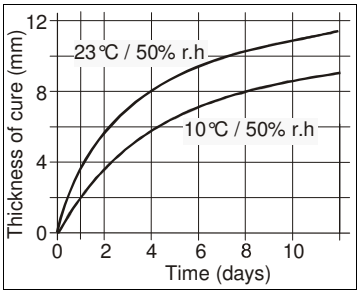

Diagram 1: Curing speed for Sikaflex®-290 DC

Chemical Resistance

Sikaflex®-290 DC offers effective long-term resistance to fresh water, seawater, aqueous cleaning agents. Both sealants are 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.

The above information is offered for general guidance only. Advice on specific applications will be given on request.

Method of Application

Instructions and directions for use of Sikaflex®-290 DC is contained in a special brochure that may be obtained from your local Sika company or agent.

Advice on specific applications is available from the Technical Service Department of Sika Industry.

Removal

Uncured Sikaflex®-290 DC 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 should be washed immediately using Sika® Handclean Towel or a suitable industrial hand cleanser and water. Do not use solvents!

Further Information

Copies of the following publications are available on request:

- Material Safety Data Sheets
- Installation guide for deck caulking
- Sika Pre-Treatment Chart for Marine Applications
- Sika Marine Application Guide
- Sika in Cruise and Ferry
- General Guidelines Bonding and Sealing with Sikaflex®

Packaging Information

Sikaflex®-290 DC

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

Value Bases

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.

Legal Notes

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.

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