Industry

Product Data Sheet

Version 02/2012

Sikaflex®-290*i* DC

Weather-Resistant Deck Caulking Sealant

Technical Data

Chemical Base	One-component polyurethane
Colour (CQP[1] 001-1)	Black
Cure Mechanism	Moisture-curing
Density (uncured) (CQP 006-4)	Approx.1.3 kg/l
Non-Sag Properties	Thixotropic, non-sagging
Application Temperature - ambient	10°C to 35°C
Tack-Free Time[2] (CQP 019-1)	Approx. 80 minutes
Curing Speed (CQP 049-1)	See Diagram
Shrinkage (CQP 014-1)	Approx. 1%
Shore A Hardness (CQP 023-1/ISO 868)	Approx. 40
Tensile Strength (CQP 036-1/ISO 8339)	Approx. 3.5 MPa
Elongation at Break (CQP 036-1/ISO 8339)	700%
Tear Propagation Resistance (CQP 045-1/ISO 34)	Approx. 9 N/mm
Service Temperature (CQP 513-1)	-40°C to 90°C
Shelf Life (Storage below 25°C) (CQP 016-1)	12 months
[1] CQP = Corporate Quality Procedure; [2] 23°C and 50% Relative Humidity	

Description

Sikaflex®-290*i* DC is a one-component weathering-resistant polyurethane for joint sealing. It is specially formulated for caulking joints in traditional timber marine decking. The sealing compound cures thanks to atmospheric moisture and forms a flexible elastomer which can easily be sanded. Sikaflex®-290*i* DC meets the low spread of flame requirements set out by the International Maritime Organization (IMO). Sikaflex®-290*i* DC is manufactured in accordance with ISO 9001 and ISO 14001 Quality Assurance Systems.

Product Benefits

- One-component formulation
- Non corrosive
- Sandable
- Excellent weathering resistance
- Resistant to sea-water and fresh-water
- Easy to work with

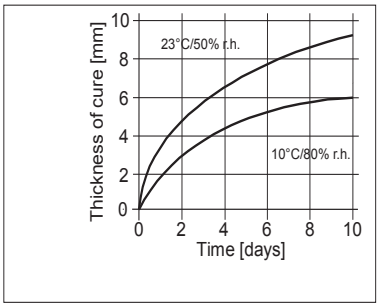
Areas of Application

Sikaflex®-290*i* DC is used exclusively for caulking joints in traditional timber decks for boat- and yacht-construction. This product is suitable for professional experienced users only. Testing with actual substrates and conditions has to be performed to ensure adhesion and material compatibility.

Powered by i-Cure® Technology

Industry

Cure Mechanism Sikaflex®-290*i* DC cures by reaction with atmospheric moisture. At low temperatures, the water content of the air is generally lower and the curing reaction proceeds more slowly (see diagram).



Curing speed for Sikaflex®-290i DC

Chemical Resistance Sikaflex®-290*i* DC offers effective **long-term resistance** to fresh-water, sea-water, and aqueous cleaning agents; **temporary resistance** to fuels, mineral oils, vegetable and animal fats and oils; **no resistance** to concentrated organic and mineral acids, caustic solutions or solvents. 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 upon request.

Surface Preparation Surfaces must be clean, dry, and free of dust, oil and grease. As a rule, the surfaces must be prepared in accordance with the instructions given in the current edition of the Sika Marine Pre-Treatment Chart. Advice on specific applications is available from our Industry - Technical Services Department.

Application Place sausage in the application gun and snip off the closure clip. Cut off the tip of the nozzle to suit joint width and apply the sealant into the joint with a suitable hand-operated or compressed-air gun, taking care to avoid air entrapment. The optimum temperature for substrate and adhesive is between 15ºC and 25ºC. For advice on selecting and setting up a suitable pump system, as well as on pump-operated application techniques, please contact the Technical Services Department of Sika Industry. Advice on specific applications is available from the Technical Services Department.

Removal Uncured Sikaflex®-290*i* DC can be removed from tools and equipment with Sika® Remover-208 or other suitable solvent. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using Sika® Hand Cleaner towels or a suitable industrial hand cleanser and water. Do not use solvents!

Sanding The moment at which Sikaflex®-290*i* DC is ready for sanding is dependant upon climate conditions (see Curing Chart above). For further information, consult the Sika Marine Application Guide.

Further Information Copy of the following publications are available upon request: Material Safety Data Sheet; Sika Marine Pre-Treatment Chart; General Guidelines for Bonding and Sealing with Sikaflex® Products; Sika Marine Application Guide.

Packaging 600 ml Sausages

Value Bases All technical data stated in this Product Data Sheet are laboratory test-based. Current measured values may vary due to factors beyond our influence.

Health and Safety Information For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the current Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data for the appropriate type of substance. All Product Data Sheets and Material Safety Data Sheets are available on our website at: www.sika.ca.

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, within their shelf life. 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 recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.

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