

Sikaflex[®]-290 DC

Weatherproof deck caulking sealants

Technical Product Data

Chemical base	1-C polyurethane
Colour (CQP ¹⁾ 001-1)	Black
Density (uncured) (CQP 006-4)	1.3 kg/L approx.
Non-sag properties	Thixotropic, non-sag
Cure mechanism	Humidity-curing
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.
Elongation at break (CQP 020-4 / ISO 8339)	600% approx.
Tensile strength (CQP 020-3 / ISO 8339)	3 N/mm ² approx.
Tear propagation resistance (CQP 045-1 / ISO 34)	10 N/mm approx.
Glass transition factor (CQP-509-1 / ISO 4663)	-45°C approx.
Application temperature	5 to 35°C
Service temperature (CQP 513-1)	permanent -40°C to 90°C
Shelf life (storage below 25°C) (CQP 016-1)	cartridge and sausage pail and drum 12 months 9 months

¹⁾ CQP = Corporate Sika Quality Procedures

²⁾ At 23°C and 50% relative humidity

Description

Sikaflex[®]-290 DC is 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.

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 professional experienced users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

Industry



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).

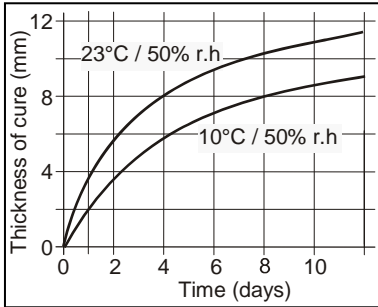


Diagram 1: Curing speed for Sikaflex®-290 DC

Chemical Resistance

Sikaflex®-290 DC offers effective long-term resistance to fresh water, seawater, aqueous cleaning agents; 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

Surface preparation

Surfaces must be clean, dry and free from all traces of grease, oil and dust. As a rule the surfaces must be prepared in accordance with the instructions given in the current edition of the Sika® Primer Chart for Marine applications.

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

Application

Cartridges: Pierce cartridge membrane.
Sausages: Place sausage in the application gun and snip off the closure clip.

Cut off the tip of the nozzle. To ensure uniform thickness of adhesive when compressed, we recommend to apply the adhesive in the form of a triangular bead. Once opened, packs should be used up within a relatively short space of time.

Do not apply at temperatures below 10°C or above 35°C. The optimum temperature for substrate and adhesive is between 15°C and 25°C. For cartridge application we recommend the use of a compressed-air piston type cartridge gun.

For advice on selecting and setting up a suitable pump system, as well as on the techniques of pump operated application, please contact the System Engineering department of Sika Canada.

Tooling and finishing must be carried out within the tack-free time of the adhesive. We recommend the use of Sika® Tooling Agent N. Other finishing agents or lubricants must be tested for suitability / compatibility.

Clean up

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® Hand Cleaner 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
- Sika Primer Chart
- Sika Marine Application Guide

Packaging Information

Sausage	600 mL
Pail	23 L
Drum	195 L

Value Basis

All technical data stated in this Product Data Sheet and laboratory test based. Current measured values may vary due to factors beyond our control.

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.

All Product Data Sheets and Material Safety Data Sheets are also available on our web site.

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, 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.

Further information available at:
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