Product Data Sheet
Version 3/11/2016

Sikaflex®-290 DC PRO

Professional Deck Caulking Compound

Industry

Typical Product Data

Chemical base		1-C polyurethane
Color		Black
Cure mechanism		Moisture-curing
Density (uncured) (CQP[1] 006-4)		1.3 kg/l (10.8 lbs/gal)
Tack free time[3] ((CQP 019-1)		90 min
Application temperature[2]		41 - 95°F (5 - 35°C)
Curing speed (CQP 049-1)		(see diagram 1)
Shrinkage (CQP 014-1)		3%
Shore A-hardness (CQP 023-1 / ISO 868)		40
Tensile strength (CQP 036-1 / ISO 8339)		3 MPa (400 psi)
Elongation at break (CQP 036-1 / ISO 8339)		600%
Tear propagation resistance (CQP 045-1 / ISO 34)		10 N/mm (60 pli)
Service temperature (CQP 513-1)	Permanent	-40°F to 194°F (-40°C to 90°C)
Shelf life (storage below 77°F (25°C))	Cartridge/Unipack Pail/drum	12 months 9 months

[1)] CQP = Corporate Quality Procedure [2)] Climate, substrate, product [3)] 73°F (23°C) / 50% R.H.

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 Organization (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.)

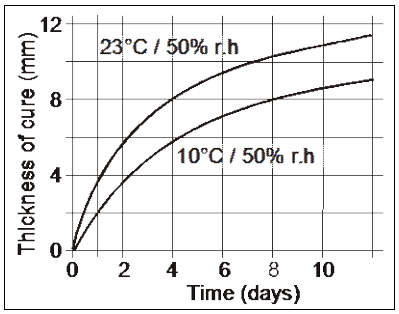

Diagram 1: Curing speed Sikaflex®-290 DC PRO

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. The above information is offered for general guidance only. Advice on specific applications is available from the Technical Service Department of Sika Industry at tsmh@us.sika.com.

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

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 (41°F - 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°F - 77°F). Advice on specific applications is available from the Technical Department of Sika Industry. Advice on specific applications is available from the Technical Service Department of Sika Industry.

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 should be washed immediately using a suitable industrial hand cleanser and water. Do not use solvents on skin!

Further Information

Copies of the following publications are available on request:

- Sika Pre-Treatment Chart for Marine Applications
- Safety Data Sheets

Packaging Information

Cartridge	300 ml
Unipack	600 ml
Hobbock	23 l
Drum	195 l

Basis of Product Data

All technical data stated in this Product Data Sheet are based on laboratory tests only. 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 Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

Limited Material Warranty

Sika Corporation warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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