

Sikaflex®-295 UV

Direct-Glazing Adhesive for Plastic Windows in Marine

Technical Data

Chemical Base	One-Component Polyurethane
Colour (CQP ¹ 001-1)	White, Black
Cure Mechanism	Moisture-curing
Density (uncured) (CQP 006-4)	1.3 kg/L.
Non-Sag Properties	Good
Application Temperature	ambient
Tack-Free Time ² (CQP 019-1)	60 minutes
Curing Speed (CQP 049-1)	see Diagram 1
Shrinkage (CQP 014-1)	1%
Shore A Hardness (CQP 023-1/ISO 868)	35
Tensile Strength (CQP 020-3/ISO 8339)	1.1 N/mm ²
Elongation at Break (CQP 020-4/ISO 8339)	500%
Tear Propagation Resistance (CQP 045-1/ISO 34)	5 N/mm
Glass Transition Temperature (CQP 509-1/ISO 4663)	-45°C
Movement Accommodation Factor	12.5%
Service Temperature (CQP 513-1)	-40 to 90°C
	Short Term: 4 hours 1 hour
Shelf Life (CQP 016-1) (Stored below 25°C)	12 months

¹ CQP = Corporate Quality Procedure ² 23°C and 50% Relative Humidity

Description

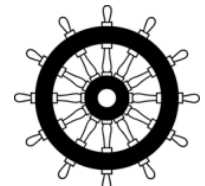
Sikaflex®-295 UV is a paste-like, one-component polyurethane adhesive that cures on exposure to atmospheric moisture to form a durable elastomer. Sikaflex®-295 UV is manufactured in accordance with the ISO 9001/14001 quality assurance system and meets the requirements set out by the International Maritime Organisation (IMO).

Product Benefits

- Wheel mark-approved;
- Fast-curing;
- Short cut-off string;
- Suitable for organic glass-bonding;
- Ageing and weathering resistant.

Areas of Application

Sikaflex®-295 UV has been specially developed for the marine industry, for use to bond and seal organic glass on boats and ships. Because of its excellent weatherability, this product can also be used to seal joints in areas of severe exposure. Suitable substrates include: aluminium (bright or anodized), GRP (polyester resin), stainless steel, timber, 2-C coatings and organic glass (PC, PMMA). Special care is required for materials that are prone to environmental stress-cracking such as thermoplastics, etc. In such cases, project-related testing is highly recommended. This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.



Cure Mechanism Sikaflex®-295 UV cures by reaction with atmospheric humidity. At low temperatures the water content of the air is generally lower and the curing reaction proceeds more slowly.

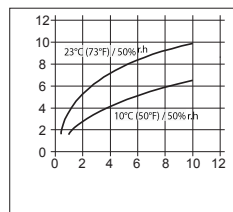
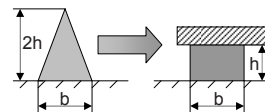


Diagram 1: Curing speed of Sikaflex®-295 UV Diagram 2: Recommended Bead Configuration



Chemical Resistance Sikaflex®-295 UV **is resistant** to fresh-water, sea-water, aqueous, chlorine-free cleaning solutions, sewage effluent and diluted acids and caustic solutions; **temporarily resistant** to fuels, mineral oils, vegetable and animal fats and oils; **not resistant** to organic acids, alcohol, concentrated mineral acids and caustic solutions or paint-thinners. 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 from grease, oil and dust. Refer to the Sika Pre-Treatment Chart for Marine Applications as a guideline. Advice on specific applications is available from the Technical Services Department of Sika Industry.

Application Cut off the tip of the nozzle. To ensure uniform thickness of adhesive when compressed, we recommend applying the adhesive in the form of a triangular bead (see Diagram 2 above). Do not apply at temperatures below 10°C or above 35°C. The optimum temperature for substrate and sealant is between 15°C and 25°C. Note: It is possible to use this product, packaged in pails, with a suitable pump system. For more information, contact the System Engineering Department of Sika Industry.

Tooling and Finishing Tooling and finishing must be carried out within the Tack-Free Time of the sealant. For a smooth finish, it is recommended that Sika® Tooling Agent N be used. Other finishing agents or lubricants must first be tested for suitability and compatibility.

Removal Uncured Sikaflex®-295 UV may 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 cleaner and water. Do not use solvents on skin!

Over-Painting Sikaflex®-295 UV can be over-painted with most conventional paint systems. The paint must be tested for compatibility by carrying out preliminary trials; the best results will be obtained if the sealant is allowed to fully cure first, especially in the case of baked enamels. Please note that non-flexible paint systems may impair the elasticity of the adhesive, impair joint movement and lead to cracking of the paint film. PVC-based paints and paints that dry by oxidation (oil or alkyd resin-based) are generally not suitable for over-painting.

Packaging 300 ml cartridges. Pails available by special order.

Further Information Copy of the following publication is available upon request: Material Safety Data Sheet, Sika® Marine Application Guide.

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. Product Data Sheets and Material Safety Data Sheets are available from your local representative.

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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