

Sikaflex®-295 UV

Direct glazing adhesive for plastic glass in marine applications

Technical Product Data:

Chemical base	1-C polyurethane	
Colour (CQP ¹ 001-1)	Black, white	
Cure mechanism	Humidity-curing	
Density (uncured) (CQP 006-4)	1,3 kg/l approx.	
Non-sag properties	Good	
Application temperature	+10°C to +35°C	
Tack free time ²⁾ (CQP 019-1)	60 min. approx.	
Curing speed (CQP 049-1)	(see diagram)	
Shrinkage (CQP 014-1)	1% approx.	
Shore A-hardness (CQP 023-1 / ISO 868)	35 approx.	
Tensile strength (CQP 020-3 / ISO 8339)	1,1 N/mm ² approx.	
Elongation at break (CQP 020-4 / ISO 8339)	500% approx	
Tear propagation resistance (CQP 045-1 / ISO 34)	5 N/mm approx.	
Glass transition temperature (CQP 509-1 / ISO 4663)	-45°C approx.	
Movement accommodation factor	12,5%	
Service temperature (CQP 513-1)	permanent	-40°C to +90°C
Short term	4 hours	120°C
	1 hour	150°C
Shelf life (storage below 25°C) (CQP 016-1)	12 months	

¹⁾ CQP = Corporate Quality Procedure

²⁾ At 23°C and 50% relative humidity

Description:

Sikaflex®-295 UV is a one-component polyurethane adhesive of paste-like consistency 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 regulations set out by the International Maritime Organisation (IMO).

Product benefits:

- One-component formulation
- Fast cure time
- Short cut-off string
- Approved for the OEM market
- Resistant to ageing and weathering
- Suitable for organic glasses

Areas of application:

Sikaflex®-295 UV has been specially developed for the marine industry, where it is used to bond and seal plastic glazing materials in boats and ships. Because of its excellent UV-resistance this product can also be used to seal joints in areas of severe exposure. Seek advice from our Technical Service before using Sikaflex®-295 UV on thermoformed plastics. Suitable substrates include:

- Aluminum (bright or anodized)
- GRP (polyester resin)
- Stainless steel
- Timber
- 2-C coatings
- Plastic glazing materials (PC, PMMA)

Industry



Cure mechanism:

Sikaflex[®]-295 UV cures by reaction with atmospheric moisture. At low temperatures the water content of the air is lower and the curing reaction proceeds more slowly (see diagram).

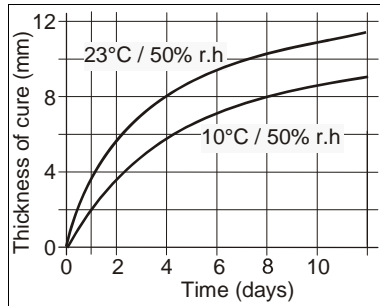


Diagram 1: Curing speed for Sikaflex[®]-295 UV

Chemical resistance:

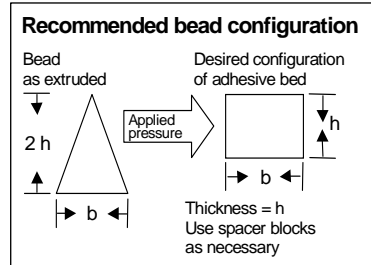
Sikaflex[®]-295 UV is resistant to fresh water, seawater, aqueous chlorine free cleaning solutions and sewage effluent as well as diluted acids and caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, alcohol, concentrated mineral acids, caustic solutions or paint thinners.

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

Method of application:

Surface preparation. Surfaces to be bonded must be clean, dry and free from all traces of grease, oil, dust and dirt. As a rule the faces must be prepared in accordance with the instructions given in the current edition of the Sika[®] Primer Table for Marine Applications.

Application. Pierce cartridge membrane. Cut off the tip of the nozzle. For satisfactory results the adhesive must be applied with a piston-type cartridge gun (hand-operated or compressed-air). To ensure a uniform thickness of the adhesive bead, we recommend that the adhesive be applied in form of a triangular bead (see illustration).



Important: 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.

Tooling and finishing. Tooling and finishing must be carried out within the tack-free time of the adhesive. Finishing agents or lubricants must be tested for suitability / compatibility.

Overpainting. Sikaflex[®]-295 UV can be overpainted when tack-free. The paint must be tested for compatibility by carrying out preliminary trials. Baked enamels should not be applied to Sikaflex[®]-295 UV until the adhesive has attained full cure. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the adhesive and lead to cracking.

Removal. Uncured Sikaflex[®]-295 UV may be removed from tools and equipment with Sika[®] Remover-208. 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!

Further information:

Copies of the following publications are available on request:

- Primer Chart for Marine Applications
- Sika[®] Marine Application Guide
- Material Safety Data Sheet
- General guidelines for bonding and sealing with Sikaflex[®] products

Packaging Information:

Cartridge	300 ml
Unipac	600 ml

Important:

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the current Safety Data Sheet containing physical, ecological, toxicological and other safety-related data for this type of product.

Note:

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 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 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 Australian version of the Product Data Sheet for the product concerned, copies of which will be supplied on request.



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