Sikaflex®-222 UV

Weathering resistant joint sealant

Technical Product Data

	1-C polyurethane
	Black, white
	Moisture-curing
(depending on colour)	1.25 kg/l approx.
	Good
ambient	10 - 35°C (50 - 95°F)
	60 min. approx.
	(see diagram)
	1 % approx.
	35 approx.
	1.5 N/mm ² approx.
	500 % approx.
	5 N/mm approx.
	-45°C (-50°F) approx.
	-40 - 90°C (-40 - 195°F) 120°C (250°F) 150°C (300°F)
cartridge / unipack pail / drum	12 months 6 months
	ambient 4 hours 1 hour cartridge / unipack

¹⁾ CQP= Corporate Quality Procedures 2) 23°C / 50% r.h.

Description

Sikaflex®-222 UV is a 1 component polyurethane adhesive of pastelike consistency that cures on exposure to atmospheric moisture to form a durable elastomer.

Sikaflex®-222 UV is manufactured in accordance with the ISO 9001 / 14001 quality assurance system and with the responsible care program.

Product Benefits

- Ageing and weathering resistant
- Fast curing
- Short cut-off string
- Suitable for organic glass bonding
- Solvent free
- Very low VOC content

Areas of Application

Sikaflex®-222 UV is a multipurpose joint sealant with excellent adhesion on aluminum, GRP (polyester resin), stainless steel, 2-C coatings and organic glass (PC, PMMA). Due to its excellent weathering resistance it is well suitable for open joints. Special care is required for materi-

als that are prone to environmental stress cracking (ESC) such as thermoplastics. In such cases project related testing is required. 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[®]-222 UV cures by reaction with atmospheric moisture. At low temperature the water content of the air is generally lower and the curing reaction proceeds slower (see diagram 1).

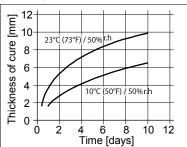


Diagram 1: Curing speed Sikaflex®-222 UV

Chemical Resistance

Sikaflex®-222 UV is resistant to fresh water, seawater, limewater, se-wage effluent, dilute 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 solvents.

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 grease, oil and dust. As a guideline for surface preparation the corresponding Sika Pre-Treatment Chart is to be used.

Advice on specific applications is available from the Technical Service 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 illustration). 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 oun.

For advice on selecting and setting up a suitable pump system contact the System Engineering Department of Sika Industry.

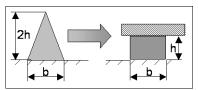


Figure 1: Recommended bead configuration

Tooling and finishing

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 must be tested for suitability / compatibility.

Removal

Uncured Sikaflex®-222 UV may 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® Handclean towels or a suitable industrial hand cleaner and water. Do not use solvents!

Overpainting

Sikaflex®-222 UV can be overpainted after formation of a skin. In case the paint requires a bake process it may be necessary to wait for a full cure. 1C-PUR and 2C-acrylic based paints are usually suitable. Not suitable are oil based paints. All paints have to be tested by carrying preliminary trials under manufacturing conditions. The elasticity of paints is lower than that of polyurethanes. This could lead to cracking of the paint film in the joint area.

Further Information

Copies of the following publications are available on request:

- Material Safety Data Sheets
- Sika Pre-Treatment Chart for 1-Component Polyurethanes
- General Guidelines Bonding and Sealing with Sikaflex[®]

Packaging Information

Cartridge	300 ml
Unipack	400 ml
Pail	23 I

Value Bases

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

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 in accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



Further information available at: www.sika.co.uk www.sika.com

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