

Sikaflex[®]-505 UV

One-Component, Silane-Terminated Polymer-Based Adhesive/Sealant

Technical Data

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| Chemical Base | MS polymers |
| Cure Mechanism | Moisture-cure |
| Non-Sag Properties | Non-Sag |
| Tack-Free Time | < 1 hour |
| Skin Time ¹ | < 30 minutes |
| Shore A Hardness (ASTM D 2240) | 45 |
| Tensile Strength (ASTM D 412) | 1.55 N/mm ² |
| Tensile Lap-Shear Strength (ASTM D 1002) | 1.89 N/mm ² |
| Elongation at Break (ASTM D 412) | 275% |
| UV Rating | No change in appearance or properties after 2,000 hours of UV-A exposure |
| Stain-ability | No |
| Corrosiveness | Non-corrosive |
| Service Temperature | Up to 204°C/400°F - for short periods |
| Shelf-Life (if stored below 25°C/77 °F) | 9 months in original, unopened package |

¹ At 25°C and 50% R.H.

Description

Sikaflex[®]-505 UV is a one-component silane-terminated polymer (STP) with excellent UV and weathering resistance and excellent adhesion to a wide variety of substrates. Sikaflex[®]-505 UV is manufactured in accordance with the ISO 9001/14001 quality assurance system.

Product Benefits

- Contains no solvents or isocyanates
- Low VOC content
- Excellent adhesion to many substrates, including aluminium, steel, glass, marble, wood and many different types of plastics
- Excellent tooling characteristics
- Cures quickly, even at low temperatures
- Highly weather-resistant
- Excellent UV resistance
- Easily paintable
- Non yellowing

Areas of Application

Sikaflex[®]-505 UV is suitable for use on a wide variety of substrates, including aluminium, steel, glass, marble, wood and many different types of plastics. Seek advice from plastics manufacturer before using on plastics prone to stress cracking.

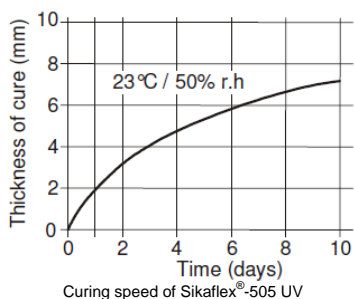
This product is designed for use by professional, experienced applicators only. To ensure adhesion and material compatibility, test with actual substrates and conditions before-hand.

Industry



Cure Mechanism

Sikaflex®-505 UV is a silane-terminated polymer which cures on exposure to atmospheric humidity. The chemical reaction is set in motion as soon as the product is extruded. Initially paste-like in consistency, Sikaflex®-505 UV cures to form a high-grade elastomer.



Chemical Resistance

Sikaflex®-505 UV offers good resistance to water, various diluted acids and alkalis, vegetable and mineral oils, salt solutions and kerosene. It is not resistant to organic solvents, gasoline, paint thinner, strong acids and strong alkalis. 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. Remove all old sealant before applying this product. For optimal adhesion, preliminary tests should be performed. Advice on specific applications is available from the Technical Services Department of Sika Canada Industry Division.

Application

Cartridges: Pierce the protective membrane before attaching the nozzle.
Sausages: Insert into the applicator gun and cut off the sausage tip. In both cases, trim the end of the nozzle to the desired configuration. For best results, apply using a hand-operated cartridge gun, or piston-type compressed-air or battery powered gun.

Recommended Application Temperature: 4°C/40°F. At temperatures below this, condition the product to 21°C/70°F before use.

Tooling and Finishing

The use of Sika® Tooling Agent N or of a soapy solution is recommended to wet the pointing tool.

Clean Up

Uncured Sikaflex®-505 UV may be removed from tools and equipment with mineral spirits or other suitable solvent. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using a suitable industrial hand cleaner and water; do not use solvents on hands!

Over-painting

Sikaflex®-505 UV can be over-painted before it becomes tack-free. The paints and paint process must be tested for compatibility by carrying out preliminary tests. The hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film.

Additional Information

The following document is available upon request:

- Material Safety Data Sheet

Packaging

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| Cartridge | 300 ml |
| Sausage | 600 ml |

Data Sources

All technical data offered in this data sheet has been obtained through laboratory testing. Factors beyond our control could have an impact on the actual results obtained in the field.

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. 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 on the Internet.

Additional Information
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