

Sikaflex[®]-505 UV HV

One-component High Performance Silane-Terminated Polymer Sealant

Technical Product Data (typical values) *Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

Chemical Base	1-C Silane Terminated Polymer
Cure mechanism	Moisture-curing
Density (uncured)	14.07 lbs/gal
Viscosity	700,000 - 800,000 cps
Non-sag properties	Non-sag
Skin Time	8 min. @ 73°F/50% rh
Shore A-hardness	50
Tensile strength	225 psi
Tensile lap-shear strength	275 psi
Elongation at break	275%
UV Ratings	No change in appearance or properties after 2000 hours UV-A exposure
Staining	Non-staining
Corrosivity	Non-corrosive
Service temperature	-75°F to 350°F (-59°C to 176°C)
Weather Resistance	Excellent
Shelf life (storage below 77°F (25°C))	9 months, unopened

Description

Sikaflex[®]-505 UV HV is a one-component silane terminated, high viscosity polymer with excellent UV and weathering resistance and excellent adhesion to a wide variety of substrates. It has a shelf life of nine months when stored unopened at or below 77°F. 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.

Product Benefits

- Contains no isocyanates or added solvents
- Fast curing even at low temperatures
- Excellent adhesion to many substrates including aluminum, steel, glass, marble, wood and many different types of plastic.
- Highly weather resistant
- Easily paintable
- Non-yellowing
- Excellent tooling characteristics

Areas of Application

Sikaflex[®]-505 UV HV may be suitable for use on a wide variety of substrates; including aluminum, steel, glass, marble, wood and many different types of plastic. Seek plastic manufacturer's advice before using on plastics that are prone to stress cracking. This product is suitable for professional experienced users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

Industry



Cure Mechanism

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

Chemical Resistance

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. Preliminary tests for optimal adhesion should be performed. Advice on specific applications is available from the Technical Service Department of Sika Industry at (tsmh@sika-corp.com)..

Application

Unipacs: Recommended application temperatures: 40°F to 95°F (4.4°C to 35°C) . For temperatures below 40°F (4.4°C) it is recommended to condition units to approximately 70°F (21°C) just prior to use. Place unipac in the application gun and snip off the closure clip. Cut off the tip of the nozzle to give desired adhesive bead geometry. For satisfactory results, the adhesive must be applied with a hand operated cartridge gun, piston-type compressed air or battery powered gun.

Removal

Uncured product may be removed from tools and equipment with mineral spirits or another suitable solvent. Strictly follow solvent manufacturer's instructions for use and warnings. 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!

Overpainting

Cured Sikaflex[®]-505 UV HV can be over-painted. The paints and paint process must be tested for compatibility by carrying out preliminary trials. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film.

Limitations

Since product is moisture-cured, permit sufficient exposure to air. Do not apply

over silicones or in the presence of curing silicones or curing urethanes. Avoid contact with excessive amounts of alcohols or alcohol-containing mixtures, as some tackiness may result. Suitability of Sikaflex[®]-505 UV HV for any given application must be determined beforehand and testing done to validate. This includes but is not limited to: adhesion testing, process compatibility evaluation, performance requirement testing, environmental compatibility evaluation, and health and safety concerns.

CAUTION: This product may cause skin/eye/respiratory irritation. Maybe harmful if swallowed. **WARNING:** This product contains a chemical known to the State of California to cause cancer.

HMIS

Health	1
Flammability	1
Reactivity	0
Personal Protection	C

FIRST AID

Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes.
Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation** – Remove to fresh air. **Ingestion** – Do not induce vomiting. Dilute with water. Contact physician. **In all cases contact a physician immediately if symptoms persist.**

Further Information

Copies of the following publications are available on our website www.sikausa.com or by contacting (tsmh@sika-corp.com)

- Material Safety Data Sheet
- Product Data Sheet

In case of emergency call:
Chemtrec: 800-424-9300
International: 703-527-3887

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety related data. It is highly recommended to read the actual Material Safety Data Sheet before using the product.

- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION

- FOR INDUSTRIAL USE ONLY
- KEEP CONTAINER TIGHTLY CLOSED
- FOR PROFESSIONAL USE ONLY

Packaging Information

Cartridge	300 ml
Unipac	400 ml

Value Basis

All technical data stated on this Product Data Sheet are based on the results of laboratory tests only. Actual measured data in the field may vary due to site specific conditions which are not known to Sika and beyond our control.

Handling And Storage

Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and laundry before reuse. For maximum shelf life, store unopened product at or below 77°F.

Clean Up

In case of spill, ventilate area. Open doors and windows. Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation use properly fitted NIOSH respirator. Confine spill, collect using absorbent material and place in properly sealed container. Dispose of excess product in accordance with applicable local, state and federal regulations.

Limited Material Warranty

SIKA 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 IMPLIED OR EXPRESS 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**

Further information available at:
www.sikausa.com

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MADE IN USA



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