

Sikaflex® -721 UV

One-Component Silane Terminated Polymer Sealant

Technical Product Data

| | | |
|--|-----------|-------------------------------|
| Chemical base | | 1-C Silane terminated polymer |
| Color | | White, Nu-White, Gray |
| Cure mechanism | | Moisture-curing |
| Density (uncured) | | 8.34 lb/gal |
| VOC (EPA method 24) | | < 0.5% |
| Application temperature | product | 40°-110°F (4°-43°C) |
| Tack free time ¹ | | 30 min |
| Open time ¹ | | 20 min |
| Curing speed | | (see diagram 1) |
| Shore A-hardness (ASTM D 2240) | | 32 |
| Tensile strength (ASTM D 412) | | 140 psi |
| Elongation at break (ASTM D 412) | | 300% |
| Service temperature | permanent | -40°-190°F (-40°-88°C) |
| Shelf life (storage below 80°F (25°C)) | | 6 months |

¹⁾ 73°F (23°C) / 50% r.h.

Description

Sikaflex®-721UV is a one-component silane terminated polymer (STP) sealant with excellent adhesion and UV resistance. Sikaflex®-721UV is manufactured in accordance with ISO 9001 / 14001 quality assurance system and the responsible care program.

Product Benefits

- Excellent tooling characteristics
- Primer less adhesion to difficult substrates
- Isocyanate free
- Low VOC content
- Excellent UV resistance
- Excellent color stability

Areas of Application

Sikaflex®-721UV is suitable for making permanent elastic seals between a wide variety of materials. Suitable substrate materials are: metals, particularly aluminum (including anodized components), sheet steel (including phosphated, chromated and zinc-plated components), metal primers and paint coatings (two-part systems), ceramic materials and plastics. Seek plastic manufacturer's advice before using on plastics that are prone to stress cracking.

Industry



Cure Mechanism

Sikaflex®-721UV 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 adhesive is extruded or the cartridge is opened. Initially paste like in consistency, Sikaflex®-721UV cures to form a high grade elastomer.

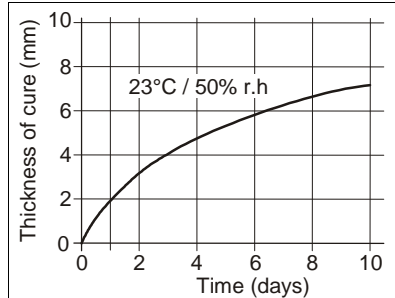


Diagram 1: Curing speed Sikaflex®-721UV

Chemical Resistance

Good resistance to water, various dilute acids and alkalis, vegetable oil, mineral oil, salt solutions, and kerosene. Not resistant to organic solvents, gasoline, paint thinner, strong acids and strong alkalis. Joint design may affect long-term durability.

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

Method of Application

Surface preparation

Surfaces should be clean, dry, free of oil and grease, and of sound quality. Preliminary test for optimal adhesion should be performed.

Advice on specific applications is available from the Technical Service Department of Sika Industry.

Application

Recommended application temperatures: 40°F to 110°F. For temperatures below 40°F it is recommended to condition units to approximately 70°F (20°C) until just prior to use. Make sure joint is frost-free. Cut tip to joint size. Puncture airtight seal. Install with hand or power operated gun. For best performance, Sikaflex®-721UV should be gunned into joint when joint slot is at mid-point of its designed expansion and contraction.

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

Tooling and finishing

To facilitate tooling, wet pointing tool or finger with soap solution for best results.

Removal

Uncured Sikaflex®-721UV may be removed from tools and equipment with mineral spirits or another 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!

Overpainting

Sikaflex®-721UV can be over-painted before the tack-free. The paints, and paint process must be tested for compatibility by carrying out preliminary trails. 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 system 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 temporary initial surface tackiness may result. For best

results, use opened cartridges the same day.

Warning

Irritant

Contains Silyl-terminated polyether. May cause eye, skin or respiratory irritation.

Handling, storage and cleanup

Avoid direct contact. Wear protective equipment (chemical resistant gloves/goggles/clothing) to prevent contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use properly fitted NIOSH approved respirator if ventilation is poor. Remove contaminated clothing and launder before reuse. Without direct contact, remove spilled or excess product and place in a suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

HMIS

| | |
|---------------------|---|
| Health | 2 |
| Flammability | 1 |
| Reactivity | 0 |
| Personal Protection | C |

First Aid Measures

Inhalation

Remove to fresh air. Eyes - Rinse for 15 minutes with tepid water. Call physician. Skin- Wash thoroughly with soap and tepid water. Remove contaminated clothing. Ingestion - Do not induce vomiting. Dilute with water. Call physician. In all cases contact a physician immediately if symptoms persist.

Further information available at:
www.sikaindustry.com
SikaFAX: 877-6639727

Sika Corporation
Industry Division
30800 Stephenson Highway
Madison Heights, Mi 48071
USA
Tel. 248 577 0020
Fax 248 577 0810



Further Information

Copies of the following publications are available on request at SikaFax: 877-663-9727

- Material Safety Data Sheets
- Technical Data Sheets

In case of emergency call:

Chemtrec: 800-424-9300
International: 703-527-3887

**KEEP OUT OF REACH OF CHILDREN
NOT FOR INTERNAL CONSUMPTION
FOR INDUSTRIAL USE ONLY
KEEP CONTAINER TIGHTLY**

Packaging Information

| | |
|-----------|--------------|
| Cartridge | 10.3 fl. oz. |
|-----------|--------------|

Chemical Ingredients

Calcium Carbonate CAS 471-34-1
NJTSRN 02944800-5281p
NJTSRN 02944800-5282p
NJTSRN 02944800-5211p
Diisodecyl phthalate CAS 68515-49-1

Important

For 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.

LIMITED 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 Technical 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.

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Industry Division
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USA
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