

SikaSil®-GP

One Part Moisture Curing Silicone

Technical Product Data (typical values)

| | |
|---|---------------------------------------|
| Chemical base | 1-C Silicone |
| Color | Clear, White, Al. Gray, Black, Bronze |
| Cure mechanism | Moisture |
| Cure type | Acetoxy |
| Density, uncured, Typical (ISO 1183 B) | 8.3 lb/gal |
| Non-sag properties | Low sag |
| Application temperature ¹ | 40 – 140 °F |
| Tack free time ² | 25 min |
| Curing speed | 1/8" per day |
| Shore A-hardness, (ISO 868) | 17 |
| Tensile strength, (ASTM D 412) | 300 psi |
| Elongation at break, (ASTM D 412) | 570% |
| Movement accommodation factor, (ISO 11 600) | +/- 25% |
| Service temperature | Permanent -60 to 400 °F |
| Shelf life (storage below 90 °F (32 °C)) | 12 months |

¹) Substrate and Air Temperature must be between 41 ° - 104 °F (5 ° - 40 °C). See "Application" Section for details.

²) 73 °F (23 °C) / 50% r.h.

Description

SikaSil®-GP is a one part moisture curing silicone sealant suitable for use in a broad range of applications. It is easy to apply and offers excellent adhesion to a variety of non-porous substrates such as glass, glazed ceramic tiles and aluminum.

Product Benefits

- Ease of use, one-part sealant, no mixing required
- Good weatherability, virtually unaffected by sunlight, rain, snow and temperature extremes
- Long life reliability, cured sealant stays rubbery from -60 °F to 400 °F without tearing, cracking, drying out, or becoming brittle
- Wide temperature gunnability can be applied in any season

Areas of Application

SikaSil®-GP is primarily designed for conventional glazing, and is ideally suited to sealing glass windows, shop fronts, aluminum angle joints, showcases and shower screens.

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.

Industry



Cure Mechanism

One part moisture curing silicone.

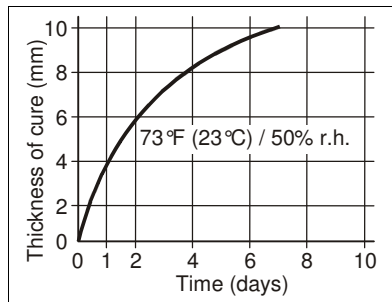


Diagram 1: Curing speed SikaSil®-GP

Chemical Resistance

Advice on specific applications will be given on request. Contact the Technical Service Department of Sika Industry at 888-832-7452.

Method of Application

Surface preparation

Clean the joint surface on both new and old jobs. Surfaces must be clean, dry, and sound. Since new material is often covered with a protective film, solvent-wash all surface materials with a wet brush and an oil-free solvent. Use masking tape where bead lines of exact shapes are required. Masking tape should be removed immediately after a bead is completed before a skin begins to form.

Application

Make sure the joint design is correct. Proper joint design minimizes stresses on the sealant. Apply sealant to dry, clean surfaces. An air operated or hand operated cartridge gun may be used. Do not break cartridge seal until just before use. Surfaces in this instance should be dried before the sealant is applied. Under normal conditions the sealant skins in 5 minutes, dries to touch in 1 hour, and bonds in 24 hours. Uncured sealant may be cleaned from tools using a commercial solvent. For advice on selecting and setting up a suitable pump system please contact the System Engineering Department of Sika Industry at 888-832-7452.

Tooling and finishing

Tool joint, if necessary, and remove masking tape. Tooling should be completed in one continuous stroke. Complete tooling within 5 minutes of sealant application. Do not use soap or oil as a tool aid. Remove masking tape immediately after tooling is completed.

Removal

Advice on specific applications will be given on request. Contact the Technical Service Department of Sika Industry at 888-832-7452.

Overpainting

Can not be overpainted.

Limitations

- Do not use for structural glazing
- Not recommended for use in below ground joints or where abrasion and physical abuse are encountered
- Do not apply to surfaces that require painting or to masonry substrates such as concrete, marble, limestone or brick
- Tooling must be completed within 5 minutes of sealant application

WARNING:

IRRITANT, SENSITIZER: Contains Ethyltriacetoxysilane (CAS 17689-77-9), Hydrotreated Heavy Petroleum Naptha (CAS 64742-48-9), Hydrotreated Middle Petroleum Distillates (CAS 64742-46-7), Methyltriacetoxysilane (CAS 4253-34-3). May cause eye/skin/respiratory irritation. May cause skin and/or respiratory sensitization after prolonged contact. May be harmful if swallowed. **Deliberate misuse by inhalation of vapors may be harmful or fatal.**

HMIS

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

FIRST AID

Inhalation – Remove to fresh air. **Eyes** - Rinse with tepid water for 15 minutes. Call physician. **Skin** – Wash thoroughly with soap and tepid water. Remove contaminated clothing. **Ingestion** – Do not induce vomiting. Dilute with water. Call physician.

Further Information

Copies of the following publications are available on our website www.sikaindustry.com:

- Material Safety Data Sheets
- Product Data Sheet
- Sika Primer Chart
- General guidelines for bonding and sealing with Sika products

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

Packaging Information

| | |
|-----------|----------------------|
| Cartridge | 10.1 fl. oz. (300ml) |
|-----------|----------------------|

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

When stored in original unopened containers at or below 90°F, product has a shelf life of 12 months. Containers should always be sealed when not in use. After a container has been opened and entire contents have not been used, extrude 3/8" of material past nozzle opening. When ready to use, pull out cured plug. Sealant is ready to use.

Clean Up

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, sweep up excess product and place in a suitable sealed container, taking care to minimize dust. Dispose of excess product in accordance with applicable environmental regulations.

Further information available at:
www.sikaindustry.com

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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 RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Material Safety

Data Sheet which are available at www.sikaindustry.com. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Material Safety Data Sheet prior to product use.

Further information available at:
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