

Sikasil® -GP Hi Temp Red

General Purpose Acetoxy Cure Silicone Sealant

Technical Product Data (typical values)

Chemical Base	1-C silicone	
Color	Red	
Cure mechanism	Moisture-cure	
Cure type	Acetoxy	
Density (uncured)	8.8 lb/gal	
Skin time ^A (CQP ^B 019)	13 minutes	
Shore A-hardness (ASTM D 2240)	20	
Tensile strength (ASTM D 412)	200 psi	
Elongation at break (ASTM D 412)	500%	
Peel Strength (ASTM C 794)	20 pli	
Application Temperature (product only)	41° to 104°F (-5 to 40°C)	
Service temperature	Permanent Intermittent	- 60° to 500°F (-51° to 260°C) 550°F (287°C)
Shelf life (storage below 77°F (25°C))	24 months	

A) 73°F (23°C) / 50% r.h. B) CQP = Corporation Quality Procedure

Description

Sikasil®-GP Hi Temp Red is a general purpose, one-component, non-sag, elastomeric, RTV acetoxy silicone sealant with good adhesion characteristics for general sealing and bonding applications. Sikasil®-GP Hi Temp Red maintains elastomeric properties up to 500° F continuous, 550°F intermittent.

Product Benefits

- One-component ready to use
- Excellent adhesion, bonds to many substrates without priming
- Fast Cure - Move assembled or sealed parts quickly
- Superior gunning & tooling
- Contains anti-microbial additive for mold resistance.
- Resistant to UV, ozone, and temperature extremes
- High temperature resistance up to 550°F

Areas of Application

- Sealing and glazing of windows, doors and skylights
- Conventional glazing and storefronts
- HVAC, plumbing, roofing
- Sealing trucks, trailers and RVs
- Marine applications
- Appliance assembly

Typical Substrates

- Glass, tile, fiberglass, plastic, ceramic, wood and painted metals

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, label and Safety Data Sheet which are available on request at tsmh@us.sika.com. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product as set forth in the current Product Data Sheet, label and Safety Data Sheet prior to product use.

Industry



Cure Mechanism

Sikasil®-GP Hi Temp Red cures by reaction with atmospheric moisture. At low temperatures the water content of the air is lower and the curing reaction proceeds more slowly.

Chemical Resistance

Sikasil®-GP Hi Temp Red is resistant to UV radiation, fresh water, seawater and some aqueous cleaning agents; no resistance to organic acids, concentrated mineral acids, caustic solutions and solvents. The above information is offered for general guidance only.

Method of Application

Surface preparation

The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion.

Porous substrates

Clean by mechanical methods to expose a sound surface free of contamination.

Non-porous substrates

For cleaning non-porous substrates, use two cloth cleaning method using xylene, isopropyl alcohol or an approved, clean, pure non-diluted industrial grade solvent. Allow solvent to evaporate completely prior to sealant application. Strictly follow solvent manufacturer's warnings and instructions for use.

Pre-treatment

Sikasil®-GP Hi Temp Red is designed to obtain adhesion without the use of a pre-treatment; however, certain substrates may require a pre-treatment. Test by applying the sealant and/or pre-treatment sealant combination to confirm results and proposed application methods. Refer to Product Data Sheet for Sika® Aktivator®-205.

Application

In all cases, make sure the joint design is correct. Proper joint design minimizes stresses on the sealant. Use masking tape if desired for areas adjacent to the

joint to be sealed to prevent surface contamination. Apply sealant to dry, clean surfaces. Do not break cartridge seal until just before use. Surfaces should be dried before the sealant is applied.

Tooling and finishing

Tool joint, if necessary, and remove masking tape. Tooling should be completed in one continuous stroke. Tool immediately after sealant is applied and before a skin begins to form. Dry tool - do not use soap, water or oil as a tooling aid. Remove masking tape immediately after tooling is completed. Complete tooling within 5 minutes of sealant application.

Removal

Uncured Sikasil®-GP Hi Temp Red may be removed from tools and equipment with solvents such as isopropyl alcohol or xylene if cleaned before sealant has begun to cure. Strictly follow solvent manufacturer's instructions for use and warning statements. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed with soap and water immediately after use. Do not use solvents on skin!

Overpainting

Sikasil®-GP Hi Temp Red cannot be overpainted.

Further Information

To contact Sika Corporation's Industry Technical Services Department, please send an email to tsmh@us.sika.com.

Copies of the following publications are available upon request:

- Safety Data Sheets
- Product Data Sheets

Packaging Information

Cartridge	10 fl. oz. (295ml)
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Basis of Product Data

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.

Health and Safety Information

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

Limited Product Warranty

Sika Corporation 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.**

Further information available at:
www.sikausa.com

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