

SikaSil®-C 995

Silicone building joint and glazing sealant

Construction

Description	SikaSil-C 995 sealant is a one-part, moisture cure silicone sealant for use in most common weather-proofing applications on a wide variety of materials. The performance range after cure is from -55°F to 200°F (-48°C to 93°C). When properly applied, SikaSil-C 995 silicone sealant has excellent resistance to heat, cold, ultraviolet radiation, ozone, sunlight and rain. Meets specifications: TT-S-001543A, TT-S-00230C, ASTM C-920, Type S, NS, Class 50 use NT, M, G, A and O, CAN/CGSB-19.13-M87 test requirements.
Where to Use	SikaSil-C 995 silicone sealant is designed to seal assemblies of metals, masonry, concrete, coated surfaces, plastics, wood and other common construction materials. SikaSil-C 995 sealant is designed for use in butt joints or lap shear joints in weatherproofing and glazing applications subject to movement. The low-modulus characteristic reduces strain on the substrate surface and the elastomeric quality allows excellent recovery from extension and compression cycling. SikaSil-C 995 sealant may be factory or field applied to glass, metal and plastics in glazing and curtainwall assemblies to produce a primary or secondary seal against water, air and dust penetration.
Packaging	10.1 oz. (299 mL) cartridge, 24/case. 20 oz. (591.5 mL) sausage, 12/case. 2 gal. (7.6 L) pails.
How to Use	<p>Installation</p> <p>Joint Design: SikaSil-C 995 silicone sealant should be no thicker than 3/8" (9.5 mm) and no thinner than 1/8" (3.2 mm) Non-gassing polyethylene or flexible polyurethane foam rod is the recommended backup material. If the joint is too shallow to allow foam rod, use a polyethylene tape.</p> <p>Curtainwall expansion joints should be designed to allow installation and retention of the bond-breaking backup material during the installation and subsequent curing of SikaSil-C 995 silicone sealant.</p> <p>The dimensions of curtainwall expansion joints and similar applications change daily as a result of solar heat gain, positive and negative buffeting from wind forces and through out the year because of seasonal changes. The movement in a sealant bead installed on the sun-side of a building or during the hottest portion of the day in metal, glass and plastic applications will be almost entirely in extension during the cold season or cycle, while the movement of a bead installed during the coldest condition will be almost entirely in compression during the hottest season. If SikaSil-C 995 silicone sealant cannot be installed when the design width is approximately halfway between the dimensional extremes, the designed joint width must be at least twice the total anticipated joint movement. For example, if the total anticipated movement in an expansion joint in which SikaSil-C 995 silicone sealant is to be installed is 1/4" (6.4 mm), the designed joint width must be 1/2" (12.8 mm). Lap shear joints should have a bead width which is equal to or greater than the total anticipated movement.</p> <p>Joint Filler Materials: The depth of the SikaSil-C 995 silicone sealant bead is regulated by the depth of the backer rod. The rod stock should be 25%-50% greater than the width of the joint, thereby extending continuous pressure against the joint walls and expanding and contracting with the bead movement without pushing the sealant out of the joint during the compression cycle. RUBBER BACK-UP MATERIALS OFTEN STAIN SEALANTS AND ARE NOT RECOMMENDED, UNLESS TESTED FOR COMPATIBILITY.</p>

Typical Data (After 21 days at 70°F and 50% relative humidity.)

Shelf Life	12 months
Storage Conditions	Store in unopened containers at 80°F (27°C).
Colors	White, Black, Limestone, Aluminum Gray, Precast White, and Bronze
Application Temperature	-32°F (-37°C) to 140°F (60°C)
Shore a Hardness (ASTM D-2240)	25
Tensile Strength (astm D-412)	360 psi (2.0 MPa)
Peel Strength (ASTM C-794-80)	55 ppi (9.6kN)
Tear Strength (ASTM D-624)	20 lbs./in. (3.5 kN)
Tack-Free Time (ASTM C-619)	3 hrs
Sag/Slump (ASTM C-639)	0.1" max.
Dynamic Movement Capability (ASTM C-719)	± 50%, cycled at 1/8"/hr., 1/8"/min.
Stress at 50% Extension	35 lbs./in., extension at 0.5/min. (1/2" x 1/2" bead)
Ultraviolet & Ozone Resistance	Weatherometer Twin Arc, 15,000 hrs.
Staining on Concrete (ASTM C-510)	None
Tooling Time (Working Time)	30 min.

The Sika logo consists of the word "Sika" in a bold, italicized, sans-serif font, with a registered trademark symbol (®) to its right. The logo is set against a red triangular background.

Surface Preparation	<p>Clean all concrete, masonry, and stone joints of all contaminants and impurities. Concrete form release agents, water repellents, concrete laitance, all old sealants and other surface treatments and protective coatings are examples of materials which must be removed from the joint surfaces to obtain proper sealant adhesion. Porous substrates should be cleaned where necessary by grinding, saw cutting, blast cleaning (sand or water), mechanical abrading or a combination of these methods to provide a sound, clean surface for the sealant application. Dust, loose particles, etc., should be blown out of joints with oil-free compressed air or vacuum cleaned.</p> <p>Clean all metal, glass and plastic surface by mechanical or solvent procedures. Detergent or soap and water treatments are not recommended. Protective films must be removed by a solvent recommended by the manufacturer of the substrate or other means which leave no residue. In all cases where used, solvents should be wiped dry with a clean cloth or lintless paper towels. Cleaning solvents should not be allowed to air dry or evaporate without wiping. Architectural coatings, paints and plastics should be cleaned with a solvent approved by the manufacturer of the product.</p> <p>Cleaning of all surfaces should be done within 1-2 hours of when the sealant is applied.</p>
Primer	<p>SikaSil-C 995 silicone sealant has primerless adhesion characteristics to many common construction materials however, some materials such as concrete, mill finish aluminum, galvanized steel, fluoropolymer paint coatings (Kynar) and other materials with variable surface characteristics often require priming. In view of unpredictable surface characteristics, trial applications should be made to check adhesion to the specific materials to be used on the project. SikaSil Silicone Primer is recommended when priming is necessary.</p>
Masking	<p>The use of masking tape is recommended where appropriate to ensure a neat job and to protect adjoining surfaces. Do not allow masking tape to touch clean surfaces to which the silicone sealant is to adhere. Masking tape should be removed immediately after the finish tooling of the SikaSil-C 995 sealant is accomplished and before the sealant begins to cure.</p>
Application	<p>Install back-up material or joint filler as specified. Apply SikaSil-C 995 silicone sealant in a continuous operation, horizontally in one direction and vertically from the bottom to the top of the joint opening. A positive pressure adequate to properly fill and seal the joint width should be employed. Tool or strike the SikaSil-C 995 silicone sealant with light pressure to spread the material against the back-up material and the joint surfaces to facilitate void-free placement. A tool with a concave profile is recommended to keep the SikaSil-C 995 silicone sealant within the joint. SikaSil-C 995 silicone sealant can be applied at outdoor temperatures as low as -35°F (-37°C) provided that surfaces are clean, dry and frost-free.</p> <p>Excess sealant should be cleaned from glass, metal and plastic surfaces while still uncured using a solvent. On porous surfaces the excess sealant should be allowed to progress through the initial cure or set-up. It should then be removed by abrasion or other mechanical means.</p>
Limitations	<p>SikaSil-C 995 should not be used:</p> <ul style="list-style-type: none"> ■ In structural applications ■ On horizontal surfaces subject to abrasion or physical abuse ■ On surfaces that are continuously immersed in water ■ In below grade applications ■ On surfaces containing frost or that are unprepared, wet or damp ■ If sealant is intended to be painted. Paint does not typically adhere to silicone sealant. ■ On concrete surfaces which contain residual form oil or other bond breaking contaminants that may interfere with sealant adhesion. ■ Building materials which might bleed oil or solvents these include, but are not limited to, impregnated wood and certain vulcanized rubber gaskets or foams, tapes or failed sealants and caulking compounds. ■ Areas where atmospheric contaminants might change the appearance of light colored sealants. Environmental contaminants tend to cling to the sealant and the sealant surface may take on the color of the contaminant. Darker colors should be used to minimize this effect. ■ Reflecting, high-gloss or light-colored surfaces where aesthetics are critical, until adequate on-site sealant, surface and ambient atmospheric tests simulating building design are conducted to ascertain material compatibility and migration to adjacent surfaces under actual use conditions. ■ Unpredictably absorptive surfaces such as marble or limestone, unless a standard of appearance has been agreed upon by the seller and the purchaser as a result of testing for stain or discoloration. ■ In totally confined spaces, as the sealant requires atmospheric moisture for completion of cure and generation of properties. ■ Unprepared or wet surfaces. ■ Do not use water for tooling and do not apply to wet or damp surfaces. ■ On surfaces where adhesion has not been verified by on site testing under actual use conditions
Caution	<p>Material Safety Data Sheets are available upon request from Sika Corporation. Similar information for solvents and other chemicals used with Sika products should be obtained from your suppliers. When solvents are used, proper safety precautions must be observed.</p>

KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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.

NO OTHER WARRANTIES EXPRESS OR IMPLIED 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.

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