Construction

Sika® Silbridge-300

Ultra-Low Modulus, Extruded and Preformed Silicone Profile

Description

Sika® Silbridge-300 is an extruded, ultra-low modulus and elastomeric silicone profile bonded into place with Sikasil® silicone sealants/adhesives. It bridges moving cracks and joints in above grade, horizontal or vertical and interior or exterior applications.

Where to Use

- Bridging joints in new and remedial construction.
- Internal seals for conventional glazing.
- Expansion joints.
- EIFS system renovations.
- Precast expansion joints.
- Metal curtain walls.
- Coping joints.
- Lap joint repairs.
- Seismic and inter-storey differential joints.

Advantages

- May be applied in below freezing temperatures if substrates are completely dry, frost free and clean.
- Rapid cure of thin adhesive layer allows early movement of substrate.
- Unaffected by most atmospheric conditions.
- Wide operational temperature range.
- Resistant to ultraviolet exposure and weathering.
- Reduces stress at bond-line; well suited for restoring soft and sensitive substrates such as EIFS.
- Capable of accommodating +200/-75% joint movement without rippling.

Technical Data

Packaging	30.48 m (100 ft) long rolls
Sizes	Widths: 25 mm (1 in); 38 mm (1 1/2 in); 50 mm (2 in); 75 mm (3 in) Standard thickness is 2 mm.
Colours / Finish	Aluminum, Black, Bronze, Colonial White, Limestone, Medium Bronze, White. All in matte finish. Custom colours and a textured finish are available on special order basis.
Shelf Life	Unlimited shelf life for silicone extrusion.
Service Temperature	-62.2 to 176°C (-80 to 350°F)
Properties at 25°C (77°F) and 50% R.H.	
Movement Capability ASTM C719	+200/-75% Variable-depending on extrusion shape and application
Elongation at Break ASTM D412	950%
Shore A Hardness ASTM C661	30+/-5
Tensile Strength ASTM D412	2.93 MPa (425 psi)
Tear Strength ASTM D624, Die B	13 - 22 kN/m
Accelerated Weathering (QUV)	
10 000 hours	No change

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

How to Use

Surface Preparation

All surfaces must be clean, sound, dry, and frost free. Joint walls must be free of oils, asphalt, tar, bituminous materials, grease, paints, coatings or sealers. Curing compounds, release agent residues, glazing compounds, and any other foreign matter must be removed.

Porous substrates should be cleaned by mechanical methods, such as grinding, saw cutting, blast cleaning (sand or water), or wire brushing. Dust, loose particles, etc. should be blown from surfaces with oil-free compressed air or vacuum cleaned to remove all material which may interfere with adhesion.

Non-porous substrates should be cleaned by using a solvent wipe method, applied by lint free and clean rags and allow the solvent to evaporate before installing the sealant. Xylene or an approved commercial solvent can be used, ensuring the solvent manufacturer's instructions are strictly followed

Apply Sika® Silbridge-300 only to suitably prepared and cleaned substrates. Long term adhesion and performance is dependant upon such.

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Priming

Sikasil® WS-295 and Sikasil®-N plus[US] are recommended to bond Sika® Silbridge-300. These sealants are designed to obtain adhesion without the use of a primer Note: certain substrates may require a primer beneath the Sikasil® adhesives. A field test is recommended to determine the adhesion of the sealant and/or primer and sealant combination, to confirm results and the suitability of the proposed application. Consult Sikasil® Primer Data Sheets or contact Sika Canada Technical Services for additional information on priming.

NOTE: Priming is never a substitute for proper surface cleaning and preparation.

Application

Masking tape may be applied in areas of high visibility or difficult sealant applications to ensure a high standard of finish.

Apply a bead of Sikasil® WS-295 or Sikasil®-N plus[US] in a straight line approximately 6 mm (1/4 in) inside the masking tape on both sides of the joint. Allow enough space for the sealant to squeeze out to the edge of the extrusion and then stop. The bond area must be a minimum of 9 mm (3/8 in) wide on both sides of the joint. The bead should be approximately 3 - 6 mm (1/8 - 1/4 in) in diameter depending on the uniformity of the substrate. Non-porous surfaces such as glass or aluminium require less sealant; porous substrates such as grout, exposed aggregate or EIFS require more.

Press pre-cut length of extrusion into place within 10 minutes of sealant application. Use a roller to apply uniform pressure to ensure complete contact to substrate. Ribs on back of Sika® Silbridge-300 will help ensure proper sealant thickness. All vertical joints should overlap horizontal joints.

Maintenance

No maintenance should be necessary. The surface can be cleaned with soap and water. In the event of Sika® Silbridge-300 being damaged, replace the damaged section in accordance with specified installation methods above. Effective repairs on small penetrations can be achieved by using a small amount of the sealant.

Clean Up

Remove masking tape and excess sealant from substrate. Clean all tools and equipment and remove excess sealant from substrates, all while the material is uncured, using a commercial solvent, such as xylene. Strictly follow the manufacturer's instructions for use and warnings. Once hardened, product can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels

Limitations

- Not intended for structural glazing.
- Do not apply when substrate temperatures are below -28°C (-20°F) or above 54°C (130°F).
- Substrates must be completely dry, frost-free, and clean.
- Do not apply to damp or wet surfaces.
- Do not apply to surfaces that are to be painted.
- Do not apply to substrates that bleed oil.
- Do not allow the uncured sealant to come in contact with solvent or curing polyurethanes.
- Avoid contact with materials or surfaces impregnated with, or containing, oil, asphalt, tar, or bituminous materials.
- This material is not intended for immersion or for vehicular traffic.
- Brass and copper may be discoloured through contact: apply a sample prior to application.
- Allow treated wood to age for at least six months before application of the sealant.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the **most recent Material Safety Data Sheet** containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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