



Silbridge 300

Ultra Low Modulus
Preformed Silicone Extrusions

Technical Data Sheet

DESCRIPTION

BONDAFLEX Silbridge 300 is an extruded ultra low modulus elastomeric, silicone profile bonded in place with silicone sealants to bridge moving cracks and joints.

WHERE TO USE

Construction Application

- Bridge joints – new and remedial construction
- Conventional glazing internal seals
- Expansion joints
- EIFS systems renovation
- Precast expansion joints
- Metal curtain wall
- Coping joints
- Seismic and interstory differential joints
- Repair of lap joints

Industrial Application

- HVAC system seals
- Refrigeration seals and gasketing
- Shipping container seals
- RV, Marine, Rail and Truck seals and gaskets

Structure

- Buildings
- Schools
- Parking
- Plazas
- Stadiums
- Prisons

Location

- Vertical and horizontal
- Interior and exterior
- Above grade
- OEM assembly

Substrate

- EIFS, glass, aluminum, metal, tile, fiberglass, plastic, ceramic, masonry, concrete, brick, stone, granite, fluoropolymer painted surfaces, vinyl, PVC, limestone, marble and wood

FEATURES

- Unaffected by most atmospheric conditions
- Wide operational temperature range
- Resistant to ultraviolet exposure and weathering
- Reduces stress at bond-line, making it well suited for restoring soft and sensitive substrates such as EIFS
- Rapid cure of thin adhesive layer
- Capable of sealing high movement joints without rippling
- Availability of special fungicide additives
- 15 standard colors

BENEFITS

- Extremely long service life, color fast
- More versatile than organic rubbers
- Long term component and building protection
- Saves labor versus recaulking or restoring EIFS panels, improving aesthetics
- Allows for early movement of substrates
- Resealing can be accomplished during temperature extremes
- Helps prevent mildew growth on profile surface
- Matches a variety of substrates

TYPICAL PROPERTIES

Hardness, Shore A (Full Cure)	30 ± 5
Tensile Strength, psi (MPa)	425 (2.93)
Tear Strength, lbf/in (kN/m)	75-126 (13-22)
Elongation at Break, %	950
Movement Capability, %	+200/-75
Accelerated Weathering 10,000 hrs.	No change
Service Temperature	-60°F to 300°F -51.1°C to 148.8°C

TEST METHOD

ASTM C-661
ASTM D-412
ASTM D-624 (Die B)
ASTM D-412
Variable – Depending on Extrusion shape and Application
QUV Weatherometer

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

PACKAGING

Extrusions are packaged in 100 ft. rolls for widths up to 9 inches and 50 ft. rolls for widths 10 inches and larger. Special packaging available upon request – ask your local Representative for more information.

SIZES

BONDAFLEX Silbridge 300 pre-cured elastomeric silicone seals are available in a variety of standard sizes, ranging in width from 1 to 6 inches in 1/2 inch increments and 6 to 12 inches in 1 inch increments. Standard thickness is 2mm (0.078")

STORAGE/SHELF LIFE

Unlimited

COLORS

Adobe Tan, Almond, Aluminum, Beige, Black, Bronze, Colonial White, Dusty Rose, Gray, Hartford Green, Ivy Green, Limestone, Medium Bronze, Sandstone, Quarry Red and White. Custom colors are available upon request.

FINISH

Standard profiles have a matte surface. Coarse and fine textures to match building substrates are also available on a special order basis.

CUSTOM DESIGNS

Custom extrusions are available upon request. These extrusions may be designed with elevated ribs or grooves to aid in positioning or bending of the extrusion during application and to enhance aesthetics.

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 and laitance.

NON-POROUS SUBSTRATES – for cleaning non-porous substrates, use two wipe method using xylene or an approved commercial solvent. Allow solvent to evaporate prior to sealant application.

PRIMING

BONDAFLEX Sil 200 GPN or **BONDAFLEX Sil 295** are recommended to bond **BONDAFLEX Silbridge 300**. These sealants are designed to obtain adhesion without the use of a primer; however, certain substrates may require a primer. Test by applying the sealant and/or primer sealant combination to confirm results and proposed application methods. Refer to Technical Data Sheet for primers **BONDAFLEX Sil 2000**, **BONDAFLEX Sil 2100** or **BONDAFLEX Sil 2300** and contact Technical Service for additional information.

MASKING

Masking tape may be applied in areas of high visibility or difficult sealant adhesive applications to ensure good appearance.

APPLICATION

Apply a bead of **BONDAFLEX Sil 200 GPN** or **BONDAFLEX 295** in a straight line approximately 1/4" (6mm) inside the masking tape on both sides of the joint. Allow enough space for the sealant adhesive to squeeze out to the edge of the extrusion and then stop. The bond area must be a minimum of 3/8" (9mm) wide on both sides of the joint. The bead should be approximately 1/8" to 1/4" in diameter depending on the uniformity of the substrate. Non-porous surfaces such as glass or aluminum require less sealant adhesive; porous substrates such as grout, exposed aggregate or EIFS require more.

Press precut 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 **BONDAFLEX Silbridge 300** will help ensure proper sealant thickness. All vertical joints should overlap horizontal joints.

CLEAN UP

Remove masking tape and excess sealant from substrate.

LIMITATION

- Do not allow sealant to come in contact with solvent during cure.
- Do not allow sealant to come in contact with curing polyurethane sealants during cure.
- Not intended for immersion.
- Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean. Contact Technical Service for more information.
- Do not apply when substrate temperatures are below -20°F or above 130°F.
- Not intended for structural glazing.
- Not recommended for horizontal traffic.
- Do not apply to surfaces that will be painted.
- Do not apply to substrates that bleed oil, plasticizers or solvent.
- Do not apply to damp or wet substrates.
- Lower temperature and humidity will extend cure rates.
- Allow treated wood to age 6 months before application.
- Brass and copper may be discolored. Test apply prior to application.

MAINTENANCE

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

FIRST AID – Safe Handling Information: For BONDAFLEX Silbridge 300

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. BEFORE USE, READ MATERIAL SAFETY DATA SHEET FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

For BONDAFLEX Sil 200 GPN or BONDAFLEX 295 Sealant

In case of eye contact with sealant, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. Refer to Material Safety Data Sheet (MSDS) for further information.



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