



100% Silicone Sealant

DESCRIPTION

PROFLO 100% SILICONE SEALANTS are one-part sealants that offer excellent adhesion, weatherability and elasticity for general glazing and sealing applications. Available in translucent and white. Cured sealant is mildew resistant. Meets Specifications: TT-S-00230C; TT-S-001543A/ASTM C-920.

MODEL NUMBERS

PFC500ALU 10.1 oz cartridge, Aluminum
PFC500CLR 10.1 oz cartridge, Clear
PFC500WHT 10.1 oz cartridge, White

PROMINENT FEATURES

- Excellent adhesion with lasting flexibility
- Easy Soap and water clean-up
- Interior/Exterior
- Cured sealant is mildew resistant

BASIC USES

Indoor/Outdoor. Sealing: Glass, metal, granite and plastic. General Sealing: Sheet metal, skylights, ventilators, air conditioning, metal/plastic signs, glass block structures, bedding of marine hardware. PROFLO 100% SILICONE SEALANTS exhibit typical silicone sealant resistance to the environments encountered in general purpose glazing and sealing applications. These environments include ultraviolet radiation, ozone, high and low temperature extremes and hydrolytic stability (high temperature and humidity).

COVERAGE

A 1/8" X 1/4" bead will yield approximately 50 linear feet of sealant per 10.1 oz cartridge.



SURFACE PREPARATION

All surfaces must be firm and free of dirt, oil, grease, efflorescence, mildew and all loose material. Wire brush unsound masonry for a firm surface. Apply only when sealant and surface temperatures are above 50°F (10°C). To remove mildew, scrub with a solution of 3 heaping teaspoonful of Trisodium Phosphate (TSP), 1 quart of Hypochlorite Household bleach and 3 quarts of warm water (wear protective goggles and impervious gloves. Follow manufacturer's directions when working with cleaning solutions). Rinse thoroughly and allow to dry.

JOINT DESIGN AND DIMENSIONS

Silicone sealants should be no thicker than 3/8' and no thinner than 1/8'. The use of a bond breaker prevents three-sided adhesion. Polyethylene or polyurethane foam rods are recommended as back-up materials. If the joint is too shallow to allow foam rod, use a bond breaker tape. The width of building expansion joints varies because of seasonal and daily changes in temperature. The designed joint width must be at least four times the expected thermal movement.

INSTALLATION

SURFACE PREPARATION: Sealant bonding surfaces should be sound, clean, dry and free of contamination. Use isopropyl alcohol wipe to clean surface.

PRIMERS

On glass and glazed surfaces, primers are not required. Appropriate primer may be required on plastics and other construction materials for maximum adhesion. It is recommended that a bead of sealant be applied to the substrate material to test adhesion prior to general job use.

MASKING

Areas adjacent to joints should be masked, preferably before priming, if it is necessary to obtain a neat sealant line.

METHOD OF APPLICATION

If, when applied as directed, this material peels, cracks or separates, it will be replaced without charge upon presentation of proof of purchase and this used cartridge. This limited warranty applies only to residential use and damages, including consequential damage and other remedies, are excluded. No other warranties apply, including fitness for particular purpose.

PACKAGING

PROFLO 100% SILICONE SEALANTS sealant is available in 10.1 oz. cartridges. When solvents are used, proper safety precautions must be observed. Maximum recommended pressure for air-operated guns with caulking cartridges is 45 psi (3.2 kgs/cm²).

STORAGE

Do not stock containers below 40°F. Warm to above 50°F prior to use. Storage in direct sunlight or excessive heat will reduce working time and shelf life.



CAUTION!
DO NOT TAKE INTERNALLY.
KEEP OUT OF REACH OF CHILDREN.
KEEP FROM FREEZING.

CALIFORNIA PROP 65 WARNING: This product may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. **Wash Hands After Handling.**

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LIMITATIONS

- 100% silicone is not paintable
- Not For: Structural Glazing
- Not For: Concrete, Marble, Limestone, Lead, Zinc, or Below Water
- Should not be applied to 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.
- Not recommended for mirror installations without the approval of the mirror manufacturer. Typical product data values should not be used as specifications. The use of these adhesive sealants is subject to the following conditions:
- The adhesive sealant is applied in accordance with Good Manufacturing Practice at a thickness not to exceed 6 mm (¼ in.) from an exposed edge.
- As a continuous film between joints acting as a functional barrier between the food and the substrate (area underneath the joint).
- The adhesive sealant must be cured for a minimum of 14 days at 25°C (77°F) and 50% R.H.
- The operating temperature of the adhesive sealant after cure must not exceed 177°C (350°F). All previously mentioned adhesive sealants must be evaluated to determine bond strength for each specific application. If greater adhesion is required, the evaluation of appropriate primer is recommended.

Typical Properties - Supplied	Test method	PFC500
Tooling time	Lab value	15 min.
% solids by weight	Lab value +/- 1%	100
% solids by volume	Lab value	100
Viscosity	Semco - 1/8" orific	500 grams/min.
Specific Gravity (water = 1)		1.00
Physical Form	Observation	Paste
Color	Observation	White Clear
Odor	Subjective	Acetic acid
Tack free time in minutes	ASTM D2377	30 min.
Paint Over Time		Not Paintable
Full Cure Time		24 hrs
Freeze/Thaw Stability	C731	Will Not Freeze
Temperature Application Range		40°F to 120°F
Volatile Organic Content Weight %	Calculated	CARB Chem. Curing (n.a.) < 3.0 wt. %
VOC excl. H2O (G/L)		36.00
Flash Point	Estimated	> 93 °C; 199 °F
Shelf life		24 month
Typical Properties - Cured		
Joint Movement Capability		+/-25%
Temperature Service Range (after cure)		-60F to 400°F
Slump inch.	ASTM D2202	NONE
Durometer hardness	ASTM D2240	25
Paintable		NO
Cleanup		Cleanup Mineral Spirits
Typical Properties (Silicone Only) - Cured		
Tensile strength		213
Elongation		328



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ALT CODE	(OLD)
PFC500WHT	(PFL55010)
PFC501CLR	(PFL5501)

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