

Pecora 896-TBS

Thermal Barrier Silicone™

High Performance Silicone Window & Door Sealant

Specification Data Sheet



I. BASIC USES

- In-shop fabrication of windows as a primary bedding compound for glass in wood, vinyl and aluminum and steel sash; as a seam sealer, as well as cap, toe or heel beads for windows and doors. Adheres extremely well to glass fiber reinforced polyamide composite structural thermal barriers.
- Perimeter weatherseal for field glazing and window installation.

2. MANUFACTURER

Pecora Corporation
165 Wambold Road
Harleysville, PA 19438
Phone: 215-723-6051
800-523-6688
Fax: 215-721-0286
Website: www.pecora.com

3. PRODUCT DESCRIPTION

Pecora 896-TBS is a one-part neutral curing, medium-modulus silicone sealant specially formulated for the window and door glazing industry. Cured in the presence of atmospheric moisture, 896-TBS skins within minutes, cures through (1/4" bead) in less than 24 hours and develops quick sure adhesion.

Product Features:

- Primerless adhesion to glass fiber reinforced polyamide composite structural thermal barriers.
- Tenacious primerless adhesion to vinyl, PVC, Kynar 500/Hylar 5000 based paint and coatings, anodized aluminum, wood and most other common substrates associated with the fenestration industry.
- High strength and extreme movement capabilities facilitating its use in most demanding metal, vinyl and wood window applications.

- Fast cure-through which enables the manufacturer to increase productivity by reducing the holding period resulting in faster shipment of finished units.
- Designed to be applied from cartridges, bulk dispensing equipment and automatic glazing tables.
- Compatible with all tested insulating glass units.
- Non-objectionable odor.
- A Seam Sealing Formulation (896-TBS-SSL) is also available.

Product Options: Pecora offers the following options to be added to Pecora 896-TBS Silicone Window & Door Sealants:

- **Black Light Visibility:** The UV option can be added to Pecora's 896-TBS translucent or light colored silicone sealants giving line operators the ability to easily detect gaps in the sealant that can result in leaking.
- **Beaded Spacers:** Proprietary plastic beaded spacers (sizes .03" and .05") can be added directly into Pecora's 896-TBS sealants eliminating the process of adding blocks or mechanical spacers to the window bedding. The integral beads reduce "squeeze out" and "starved bond lines" resulting in a consistently higher performing seal. Contact Pecora Technical Services for specific application details.

Limitations: Pecora 896-TBS Silicone glazing sealant should not be used in the following applications:

- In totally confined or air free spaces.
- With building materials that bleed oils, plasticizers or solvents.
- On surfaces that will require painting.
- Where abrasion or abuse is expected.

PACKAGING

- 10.1 fl. oz. (300 ml) plastic cartridges
- 5-gallon (18.9 L) pails
- 50-gallon (189 L) drums

COLOR

- Translucent
- Custom colors available upon request (30 gallon batch minimum)

4. TECHNICAL DATA

Federal Specification TT-S-001543 A, TT-S-00230C Class A and ASTM C-920, Class 50, Type S, Grade NS, Use G, A, M, O, ASTM C-1184-91. AAMA 802.3 Type I & II, AAMA 805.2, AAMA 803.3-92 Type I, AAMA 803.3-92 Type II (896-TBS-SSL). CAN 2-19.13-M82 (19-GP-9MA).

TYPICAL PHYSICAL PROPERTIES

| Test Property | Value | Test Procedures |
|---------------------------------|------------------|------------------------|
| Cure Time 1/4" bead (hours) | <24 | ASTM C679-87 |
| Dynamic Joint Movement (%) | ±50 | ASTM C719-93 |
| Elongation (%) | 550 | ASTM D412-87 |
| Hardness Shore A | 27 | ASTM C661-93 |
| Modulus, 100 % Elongation (psi) | 55 | ASTM D412-87 |
| Staining (including vinyl) | None | TT-S-001543A (Com-NBS) |
| Tack-Free Time (minutes) | 8-15 | ASTM C679-87 |
| Service Temperature Range (°F) | -60° F - +300° F | |
| Tensile Strength (psi) | 225 | ASTM D412-87 |
| Ultraviolet & Ozone Resistance | Excellent | |
| VOC Content | <100g/L | ASTM D3960 |

5. INSTALLATION

Joint Design: A thin bead of silicone will accommodate more movement than a thick bead. The width or depth of the sealant should not be less than 1/8" (3 mm). In joints up to 3/8" (9 mm) wide, depth of the sealant should be equal to the width. In joints over 3/8" (9 mm), but not exceeding one inch (25 mm), the depth should be maintained at 3/8" (9 mm).

Application: Install backup material or joint filler. Apply sealant in a continuous operation. In cap bead glazing, tool the sealant applied at the sill so that precipitation and cleaning solutions will not pool.

Cleaning: Excess sealant should be removed from all surfaces while still uncured. Cured sealant is very difficult to remove without altering or damaging the surfaces to which the sealant has been misapplied.

Shelf Life: Pecora 896-TBS silicone glazing sealant has a shelf life of twelve (12) months from the date of manufacture when stored in unopened cartridges at temperatures lower than 80°F (27°C) or nine (9) months in tightly sealed bulk packages and performs equally well during any part of this shelf life.

Precautions: Contact with uncured sealant, with vapors generated during curing, or with dust formed from cured sealant may cause eye, skin, or respiratory tract irritation and possible allergic reaction. Use only with adequate ventilation or wear an appropriate NIOSH-approved respirator. Avoid contact and wash thoroughly after handling. May be harmful if swallowed. Keep away from heat, sparks and flame. Refer to Material Safety Data Sheet (MSDS) for more information.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF THE REACH OF CHILDREN.

6. AVAILABILITY AND COST

Pecora products are available from our plants and warehouses, or from stocking distributors in all major cities. For the name and telephone number of your nearest representative call one of our locations listed below or visit our website at www.pecora.com.

7. WARRANTY

Pecora Corporation warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when installed in accordance with our published recommendations and in applications considered by us as suitable for this product. The determination of eligibility for this warranty, or the choice of remedy available under this warranty, shall be made in our sole discretion and any decisions made by Pecora Corporation shall be final. This warranty is in lieu of any and all other warranties, expressed or implied, and in no case will Pecora be liable for incidental or consequential damages.

8. MAINTENANCE

If the sealant is damaged and the bond is intact, cut out the damaged area and recaulk. No primer is necessary. If the bond has been affected, remove the sealant, clean and prepare the joint in accordance with instructions under "INSTALLATION".

9. TECHNICAL SERVICES

Pecora representatives are available to assist you in selecting an appropriate product and to provide on-site application instructions or to conduct jobsite inspections. For further assistance call our Technical Service Department at 800-523-6688 or 215-723-6051.

10. FILING SYSTEMS

- Sweet's Catalog File: www.sweets.com
- General Building
- 07100 Waterproofing
- 07920 Sealants
- Civil Engineering
- 07100 Waterproofing



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