

BASIC USES

- Glazing and sealing of window and door assemblies
- Photovoltaic cell assembly
- Polycarbonate security glazing applications
- Electronic component sealing and encapsulation

MANUFACTURER

Pecora Corporation

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

PRODUCT DESCRIPTION

Pecora 557 is a single component, moisture cure, 100% silicone sealant which cures to form a tough, permanently flexible rubber.

Pecora 557 has superior resistance to ozone, ultraviolet radiation, and airborne chemicals.

Pecora 557 is compatible with most plastics, including polycarbonate and adheres to most non-porous surfaces without the use of a primer.

Pecora 557 also has excellent dielectric properties, high surface resistivity and repels water to protect sensitive electronic components making it ideal for assembly of photovoltaic panels.

Limitations:

Pecora 557 should not be used:

- To seal marine joints at or below the waterline.
- In totally confined or air-free spaces.
- In designs that require painting after application of sealant.
- On surfaces with special protective coatings without prior consultation with Technical Services department.
- When surface temperatures during application exceed 140°F (60°C).
- On damp surfaces.

Advantages:

- Pecora 557 is fully compatible with sensitive metals such as copper, brass, or silver.
- 100% polycarbonate compatible.
- Pecora 557 will not stress craze polycarbonate.
- Primerless adhesion to most non-porous surfaces.
- No corrosive reaction products.
- No odor.
- Excellent Dielectric properties.

LIMITED WARRANTY

Applicable Standards: ASTM C920, Class 50, Type S, Grade NS, Use G, A, and O. Complies with the requirements of Mil-A-46146A – Adhesives/ Sealants, Silicone RTV, NonCorrosive – for use with sensitive metals. Complies with Bayer Material Science – Chemical Compatibility Test for Unreinforced Thermoplastic Resins. Acceptance by U.S. Department of Agriculture (USDA) for use in meat and poultry processing plants. FDA CFR 177.2600 – Rubber articles intended for repeated use.

Shelf Life: A shelf life of 1 year from date of manufacture when stored at 80°F or below can be expected.

Application: All surfaces should be clean and dry, and free of dust, dirt, and grease. It is recommended that bonding surfaces be wiped with an oil-free solvent such as Iso-propyl alcohol or other substrate compatible oil free solvent. Allow surface to dry thoroughly

PACKAGING

- 10 oz and 20 oz sausage packs
- 2 gallon and 4.5 gallon pails
- 50 gallon drums

COLOR

- Black, White
- Custom colors are available upon request (minimum batch quantities apply)

before applying sealant. Pecora 557 has excellent unprimed adhesion to most substrates. Pecora P-120 primer may be used on non-porous substrates, if necessary. Consult Pecora Technical Service for priming requirements.

Pecora 557 is ready-to-use and requires no mixing or additives. Curing begins as soon as the sealant is exposed to atmospheric moisture. At conditions of 77°F (25°C) and 50% relative humidity, a bead of sealant, 3mm (1/8"), will skin over in 15 - 20 minutes and fully cure in 24 hours, attaining full physical properties in 7 days. Higher humidity and temperature will accelerate the cure. Cure time will also vary with the degree of confinement. Tooling, if necessary, should be done before skin-over takes place. Protect all surfaces not to receive sealant applications.

Cleaning: Excess sealant should be removed from all surfaces while still uncured. Cured sealant is very difficult to remove without altering

TYPICAL PHYSICAL PROPERTIES

Test Property	Value	Test Procedure
Viscosity, cps	400000	Brookfield
VOC content, g/L	<50	ASTM D3960
% Solids	100	Pecora
Shrinkage	None	Pecora
Hardness, Shore A	25-30	ASTM 661
Peel Adhesion (glass,alum), pli	15-20	ASTM C794
Skin Time, minutes	15-20	Pecora
Full Cure @ 77°F, hrs (1/8" bead)	24	Pecora
Service Temperatures	-40°F (-40°C) to 392°F (200°C)	Pecora
Tensile Elongation, %	600	ASTM D412
Tensile Strength, psi	60	ASTM D412
Dielectric Constant	4.1 @ 1kHz / 4.1 @ 10kHz	ASTM D150
Dissipation Factor	0.006 @ 1kHz / 0.002 @ 10kHz	ASTM D150
Application Temperature Range, °F	-20 to 120	Pecora Corporation
Service Temperature Range, °F	-60 to 300	Pecora Corporation

or damaging the surfaces to which the sealant has been misapplied.

Warnings and Hazards: Before use refer to SDS for important warnings and safety information. Avoid contact with skin, eyes or clothing. The use of gloves, aprons or other protective devices is recommended. In case of skin contact, wash thoroughly with soap and water. If contact with eyes is made, flush thoroughly with clear water and get medical attention.

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

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 "Application".

AVAILABILITY AND COST

Pecora products are available from stocking distributors nationwide. For the name and telephone number of your nearest representative, call the number below or visit our website at www.pecora.com.

LIMITED WARRANTY

Pecora Corporation warrants this product 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. 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.

TECHNICAL SERVICES

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

FILING SYSTEMS

CSI MasterFormat Designations:

- 07 92 00: Joint Sealants
- 08 85 00: Glazing Accessories