

Pecora 890 FTS

Specification Data Sheet

Field Tintable, Non-Staining, Ultra Low-Modulus Silicone Sealant



1. BASIC USES

• Pecora 890FTS (Field Tintable Silicone) is designed primarily for sealing expansion and control joints in precast concrete panels, architectural and natural stone, metal curtain walls, sealing of door and window perimeters, Exterior Insulation Finish Systems (EIFS) and numerous other applications requiring a high-performance sealant. It adheres tenaciously to concrete, natural stone, masonry, steel, fluoropolymer and powder coated aluminum, wood, vinyl and many plastics, generally without need for a primer, and performs equally well in new or remedial construction. Compared to Pecora 890, the 890FTS offers the added versatility of field tinting through the use of our universal color packs.

effect on the ultimate performance of 890FTS even after years of such exposure.

Pecora 890FTS is particularly well suited for use in Exterior Insulation Finish (EIFS) because of its proven strong adhesion to all EIFS base coats and because its ultra-low modulus formulation places minimal stress on the bond line.

Advantages: Pecora 890FTS offers the following features:

- Ability to produce virtually any color in the field through the use of Pecora's universal color pack system and color matching services.
- Will not stain natural stone or other porous surfaces.
- Superior adhesion: Will bond tenaciously to most substrates without the need for priming.

- Excellent weatherability: Because of its 100% silicone composition, it is virtually unaffected by UV, precipitation, ozone, and temperature extremes.
- Resilient: Will remain flexible under extreme temperature swings (-60°F to 300°F).

PACKAGING

- 1.5 gallon (5.68 L) units

COLOR

- 50 Standard colors (see color strip for details).
- Unlimited range of custom colors (certain restrictions may apply).

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

Pecora 890FTS is a field tintable, neutral-curing, ultra low-modulus silicone sealant that will not stain natural stone such as marble and granite. It reacts with atmospheric moisture to form a durable, flexible building sealant. Pecora 890FTS performs exceptionally well under dynamic conditions due to its ultra-low modulus, high extension/compression, recovery properties and strong adhesion to most building materials and as a result, accommodates long-term movement of +100/-50% in properly designed joints.

Harsh weather conditions, rain, sleet, snow, sunlight and extreme temperatures, high ozone concentrations and/or exposure to intense ultraviolet rays have very little

TABLE 1: TYPICAL UNCURED PROPERTIES
at 77°F (25°C), 50% R.H.

Test Property	Value	Test Procedure
Flow, Sag, Slump	Nil	ASTM C-639
Tool/Work Time (minutes)	15-20	Pecora Corp.
Tack free time (hrs)	1-2	ASTM C-679
Cure time (days)	7-14	Pecora Corp.
Full adhesion (days)	7-14	Pecora Corp.
VOC g/L	98	ASTM D-3960

TABLE 2: TYPICAL CURED PROPERTIES
After 7 days cure at 77°F (25°C), 50% R.H.

Test Property	Value	Test Procedure
Hardness (Shore A)	15-18	ASTM C-661
Extension (%)	1000	ASTM D-412
Modulus @ 100% ext. (psi)	30	ASTM D-412
Tensile strength (psi)	120	ASTM D-412
Tear strength (ppi)	30	ASTM D-624
Peel strength (pli)	25	ASTM D-794
Dynamic movement (%)	+100/-50	ASTM C-719
Ozone/UV resistance	excellent	ASTM C-793
Staining of porous substrates		ASTM C-1248
Marble	no stain	
Granite	no stain	
Limestone	no stain	
Service temp. range (°F)	-60 to +300	Pecora Corp.

Limitations: Pecora 890FTS should not be used in the following applications:

- Sealing horizontal decks, patios, driveway or terrace joints where abrasion or physical abuse is encountered.
- Below grade, submerged joints or below the waterline in marine uses.
- In totally confined or air-free spaces since moisture is necessary for cure.
- In designs that will be painted after the sealant is applied. Apply sealant after painting is completed.
- In structural glazing applications.
- On surfaces with special protective or decorative coatings without prior consultation with Technical Services.
- With building materials that bleed oils, plasticizers or solvents, i.e., impregnated wood, caulks, some vulcanized rubber gaskets or tapes, etc.
- In interior penetration firestop systems.
- On surfaces in direct contact with food, use of Pecora 860 silicone with FDA approval is recommended.
- Where the ultra-smooth appearance of standard Pecora 890 is required.

Packaging: Pecora 890FTS is packaged in 1.5 gallon units. Pecora universal color packs are supplied separately.

Color: Since Pecora 890FTS is a neutral color base, any of our standard, special or custom colors are immediately obtainable after mixing in the Pecora color pack. Where a more precise match to standard Pecora 890 is required, custom color packs can be ordered.

4. TECHNICAL DATA

Applicable Standards: Pecora 890FTS meets or exceeds the requirements of the following industry specifications: TT-S-230C, Class A; ASTM C920, Class 100, Type S, Grade NS, Use G, A, M, O, and CGSB-19GP-9

Joint Design: Pecora 890FTS Silicone sealant should be no deeper than 3/8" (9 mm) and no less than 1/8" (3 mm). Ideally, ratio of joint width to the sealant depth is 2:1. Joint width should not exceed 1". For joints greater than 1", consult Technical Services. If Pecora 890FTS cannot

be installed when the design width is approximately halfway between the dimensional extremes, the designed joint must be at least twice the total anticipated joint movement. Good architectural practice calls for joint design of four times the anticipated movement due to construction tolerances and material variations.

5. INSTALLATION

Surface Preparation: Clean all joints and glazing areas by removing foreign matter and contaminants such as oil, dust, grease, frost, water, surface dirt, old sealants or glazing compounds and any protective coating. Porous substrates and precast concrete panels using form release agents should be cleaned by grinding, saw cutting, blast cleaning (water or sand), mechanical abrading or a combination of these methods which will provide a sound, clean and dry surface for sealant application. Dust, loose particles, etc. should be blown out of joints with oil-free compressed air or vacuum cleaned. Metal, glass and plastic surfaces should be cleaned with solvent procedure or by mechanical means. Soap or detergent and water cleaning treatments are not recommended. Cleaning of all surfaces should be done on the same day the sealant is applied.

Mixing:

- Remove plastic film. In the event skinning developed during storage, remove and discard prior to mixing.
- Pour contents of Pecora universal color pack into pail using a spatula to scrape as much color tint from container as possible.
- For best overall appearance, use the Albion® 381-G01 4 inch mixing paddle or Pecora #2 mixing paddle (or other comparable mixing paddle). Do not over mix.
- Mix for about 1 minute, moving drill throughout material while avoiding contact with pail.
- Scrape any unmixed material from sides and bottom of can with flat-edge spatula or margin trowel.
- Continue mixing for 1-2 minutes or until a uniform color is achieved. Do not exceed 4 minutes total mixing time.

- Use clean bulk caulking gun for sealant application.
- Dry tooling is recommended. If a slicking agent is required, use mineral spirits.

Cleaning: Excess sealant should be removed from all surfaces while still uncured. Cured sealant is very difficult, if not impossible, to remove without altering or damaging the surface it is adhered to.

CAUTION: Solvents may be toxic and/or flammable. Refer to solvent manufacturer's instructions or Material Safety Data Sheets.

Priming: Pecora 890FTS does not require priming on most common substrates. However, Pecora strongly suggests adhesion pre-testing, either in the field or in Pecora's laboratory, on all porous substrates, particularly brick, as well as unusual building materials and other substrates where special coatings or surface treatments may impair optimum adhesion. Where primer is indicated, P-150 should be used on porous substrates and P-120 on special metal and plastic surfaces. All EIFS substrates require priming with P-150 primer. Contact Technical Services for primer use on other substrates.

Pecora routinely conducts project specific adhesion, compatibility, and staining tests in its laboratory on representative substrate samples. Consult Technical Services for details.

Joint Backing: Backer rod controls the depth of the sealant and allows it to be applied under pressure. Use a size that will compress 25%. Denver Foam® open-cell polyurethane or reticulated (soft) polyethylene rod is recommended. Closed-cell polyethylene may be used but care must be taken not to puncture the rod which can cause outgassing or bubbling/blistering in the sealant. Open-cell polyurethane is required with non-porous substrates to allow proper curing from both sides of the sealant. In joints too shallow for backer rod, use a polyethylene bond-breaker tape to prevent three-sided adhesion. For detailed information on the use of sealant backing materials, consult Pecora Technical Bulletin #105.

Application: All joints should be masked to ensure a neat appearance and prevent sealant applied outside the joint confines from discoloring the substrate.

Storage: 12 months from date of manufacture when stored in original, airtight containers at temperatures below 90°F (32°C).

Precautions: Use in well-ventilated areas. Contact with uncured sealant may irritate eyes or skin. Flush eyes with water for fifteen minutes and seek medical attention if irritation persists. May be harmful if swallowed.

Consult Material Safety Data Sheet for additional information.

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

6. 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.

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 used in strict 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, including but not limited to a warranty of merchantability or fitness for a particular purpose and in no case will Pecora be liable for damages other than those expressly stated in this warranty, including but not limited to incidental or consequential damages.

8. MAINTENANCE

If the sealant is damaged and the bond is intact, cut out the damaged area and re-caulk. No primer is necessary. If the bond has been affected, remove the sealant, clean and repair joint in accordance with instructions under "installation".

9. TECHNICAL SERVICES

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

10. FILING SYSTEMS

- General Building
 - 07100 Waterproofing
 - 07920 Sealants
- Civil Engineering
 - 07100 Waterproofing



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