

# DynaFlex™ SC

Flexible Polyurethane Security Sealant

## Specification Data Sheet



PECORA CORPORATION®  
Architectural Weatherproofing Products  
U.S.A. • since 1862

### 1. BASIC USES

- DynaFlex™ SC is a tamper resistant security sealant. It can be used for interior and exterior expansion and control joints, window and door perimeter joints, protrusions and penetrations, vents, around fixtures and in other joints or openings of any kind (masonry-to-masonry, masonry-to-metal, or metal-to-metal) requiring a tamper resistant sealant.

### 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

DynaFlex™ SC is a unique one part, non-sag, tamper resistant elastomeric STPU (silyl-terminated polyurethane) joint sealant with many of the strengths of two-component security sealants but with the user-friendly ease-of-application properties of a one-component sealant. DynaFlex™ SC is designed to achieve high tensile and tear strengths, abrasion resistance and an average ultimate hardness of at least 55, yet still withstand 25% total joint movement. As a result, this rugged but flexible sealant is ideally suited for use in institutional and correctional complex security installations but performs equally well in other public buildings and facilities where ordinary sealants are easily damaged or torn out by idle tampering and acts of vandalism.

DynaFlex™ SC not only is more flexible than epoxy in composition but also satisfies the concerns for color coordination. It is available in two standard colors, and can be painted to blend with adjacent surfaces.

**Note:** In high security areas where a harder material is required and flexibility is less important, Pecora EP-1200 Dynapoxy with a Shore D Hardness of 70 and higher compressive strength is recommended.

**Limitations:** DynaFlex™ SC is not to be used in active joints experiencing movement greater than 12 1/2% in compression or extension. Nor should it be used in areas where it may be subjected to harsh chemicals such as acids, strong alkalis, ketones, etc.

#### PACKAGING

- 10.1 oz cartridges - 299 ml
- 20 oz. sausages - 591 ml
- 2-gallon pails (custom order - 200 gallon minimum batch size) 7.6 L

#### COLOR

- Limestone, Tru-White

### 4. TECHNICAL DATA

**Applicable Standards:** Meets Federal Specification TT-S-00230C, Type II, Class B and ASTM C-920-98, Type S, Grade NS, Class 12.5.

**Joint Design:** The width of active joints should be a minimum of 8 times the anticipated movement. The width or depth of the joint should not be less than 1/4" (6 mm). In joints up to 1/2" (12 mm), but not exceeding 1 1/4" (31 mm), the depth should be maintained at 1/2" (12 mm). For joints wider than 1 1/4" (31 mm), please consult our Technical Service department.

### 5. INSTALLATION

**Surface Preparation:** Proper joint preparation is extremely critical. All surfaces must be clean, dry, and free of all foreign matter or contamination such as oil, grease, wax, bitumen, curing compounds, form-release agents or other coatings.

Old caulking materials should be removed from masonry joints by grinding or sawing to sound virgin substrates to insure optimum performance of the new sealant. Metal surfaces must be free of rust, corrosion and protective coatings.

### TYPICAL PHYSICAL PROPERTIES at 77°F (25°C), 50% RH

Test Property	Value	Test Procedure
1/4" Cure Through (hours)	48	Pecora Corporation
Adhesion to Concrete (pli)	35	ASTM C794
Elongation, ultimate (%)	225	ASTM D412
Hardness, Shore A Ultimate*	55±5	ASTM C661
Tack Free Time (minutes)	90	ASTM C679
Tear Strength (ppi)	40±5	ASTM D624
Tensile Strength, ultimate (psi)	250	ASTM D412
VOC Content (g/L)	15	ASTM D3960
VOC Emissions (TVOC)	<2 ug (0.002 mg)/cu m	CDPH v1.1-2010

\*hardness may fluctuate from this value due to variations in humidity and temperature.

**Priming:** Security caulking requires exceptional adhesion, particularly in containment areas like inmate cells, etc. Since Dynaflex™ SC's higher hardness puts extra stress on the bond line, P-75 primer should always be used on porous substrates to obtain this superior adhesion. Steel, aluminum, and glass should be primed with P-100. When applying Dynaflex™ SC over block that has been sealed with a blockfiller, priming may be necessary. A field test should be conducted to confirm satisfactory adhesion. Contact Technical Services for other recommendations as to priming or other surface treatment.

**Joint Backing:** Backer rod cushions the sealant, controls the depth and allows it to be applied under pressure. For the firmer support recommended for security sealing, use a closed-cell polyethylene backer rod that will compress 25% when inserted into the joint.

In joints too shallow for backer rod, use a polyethylene bond-breaker tape to prevent three-sided adhesion.

**Application:** Joints should be masked to ensure a neat appearance. Sealants should be applied in a continuous fashion using standard caulking equipment. Fill the joint completely.

**Tooling:** Tool immediately to assure full adhesion. Tooling without a slicking agent is preferred but if conditions require one, mineral spirits is recommended.

**Cleaning:** Immediately remove all excess sealant and smears adjacent to joints with mineral spirits. Also use mineral spirits for removing uncured sealant from equipment. Remove cured sealant by scraping, sandpapering, etc. (Caution: mineral spirits is flammable and toxic. Observe manufacturer's precautions.)

**Painting:** Dynaflex™ SC can be painted if so specified. A high-quality latex is the best choice, but good oil-based paints also are acceptable. Care should be taken when using the hard drying epoxy paints. These paints do not have the flexibility of the sealant and may crack in active joints when the sealant expands and contracts to a degree greater than the movement capability of the paint. Also, epoxy paints should be completely cured before Dynaflex™ SC is applied against them or an area of incompatibility will result.

**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](http://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 prime with P-75 or P-150 primer and recaulk. 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.

## 10. FILING SYSTEMS

- CSI MasterFormat Designation 07 92 00 – Joint Sealants.



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