

BASIC USES

DynaFlex™ SC is a tamper resistant security sealant. It can be used for 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 sealant.

MANUFACTURER

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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 12.5% 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. DynaFlex™ SC should not be used on polycarbonate substrates.

TECHNICAL DATA

Applicable Standards: Meets Federal Specification TT-S-00230C, Type II, Class B and ASTM C920, Type S, Grade NS, Class 12.5, Use T1, M, G, A and O.

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 ¼" (6 mm). In joints up to ½" (12 mm), but not exceeding 1¼" (31 mm), the depth should be maintained at ½" (12 mm). For joints wider than 1¼" (31 mm), please consult our Technical Service department

INSTALLATION

Surface Preparation: When installing security sealants, surface preparation becomes of utmost importance in contributing to the overall tamper resistance and tamper-proof

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

properties associated with security sealants. If bonding to the substrate is compromised in any way, the physical properties of the security sealant that contribute to tamper resistance become ineffective. All surfaces must be clean, sound, and free of surface water. Remove laitance, curing compounds, coatings, oil, grease, rust, waxes, and other bonding-inhibiting substances.

Application over paints or coatings is not recommended, unless the paint or coating can be relied upon to impart adhesive properties equal to the sealant/virgin concrete bond and maintain the security properties needed. Consult Pecora Technical Service for requirements regarding applying security sealants over painted surfaces as testing will be required.

Priming: For optimal performance, security caulking requires excellent adhesion, especially in isolated containment areas such as inmate living cells. Using Pecora P-150 or P-225 primer on concrete and

TYPICAL PHYSICAL PROPERTIES at 77°F (25°C), 50% R.H.

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 C579
Tear Strength (ppi)	40+5	ASTM D624
Tensile Strength, ultimate (psi)	215	ASTM D412
VOC Content (g/L)	15	ASTM D3960
VOC Emissions (TVOC)	Pass (All Exposure Scenarios)	CDPH v1.2-2017

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

DynaFlex™ SC

Flexible Polyurethane Security Sealant



SPECIFICATION DATA SHEET

masonry, and Pecora P-100 or P-120 primer on steel, aluminum, and glass is recommended. Always conduct field tests under site-specific conditions to verify adequate adhesion. Given the higher hardness of security sealants, consult Pecora Technical Service if considering applications without primer, as these sealants must meet stricter performance standards than standard sealants. 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. A mock-up with representative paint finishes is highly recommended. Refer to Pecora Technical Bulletin #31 for guidelines regarding painting over joint sealants.

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

Storage Life: Dynaflex™ SC has a shelf life of approximately one (1) year from the date of manufacture when stored in sealed containers at temperatures lower than 80°F (26°C).

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.

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.

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".

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.

FILING SYSTEMS

<http://www.4specs.com>
-- 07 10 00 Waterproofing
-- 07 92 00 Joint Sealants

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CSI MasterFormat Designation:
07 92 00 Joint Sealants