

### Flexible Polyurethane Security Sealant

#### 1. BASIC USES

- All interior joints and perimeters of fixtures, penetrations, vents, doors, windows and all other similar openings where a flexible security sealant is required.
- Interior window glazing.
- Heavy pedestrian traffic expansion and control joints for security and non-security areas.

#### 2. MANUFACTURER

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#### 3. PRODUCT DESCRIPTION

DynaFlex™ is a unique two-part, non-sag, tamper resistant elastomeric polyurethane joint sealant.

DynaFlex is designed to achieve high tensile and tear strength, abrasion resistance and an ultimate Shore A hardness of 55, yet withstand 25% total joint movement. As a result, this rugged, but flexible sealant is ideally suited for use in institutional and correctional facility installations but performs equally as well in other public buildings and facilities where ordinary sealants are easily damaged or torn out by idle tampering and acts of vandalism.

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

**Limitations:** DynaFlex is not to be used:

- In active joints experiencing movement

greater than ±12-1/2% in compression or extension.

- In areas where it may come into contact with food products.
- In areas where it may be subjected to harsh chemicals such as acids, strong alkalis, ketones, etc.

**Fire Rated Systems:** Two-hour fire and temperature rated wall, Design (VVV-S-0021) and floor; Design (FF-S-0017) joint systems up to 2" (50 mm) wide can be designed with Ultra Block™ fire blocking material.

These designs have been full-scale tested and classified by Underwriters Laboratories, Inc. and appear in the 2000 UL Fire Resistance Directory, Vol. 2.

**Ref:** Standard Fire Tests of Building Construction & Materials, ANSI/UL 263, ASTM E119, NFPA No. #251.

Ultra Block™ is a product of Backer Rod Mfg. Co., Denver, Colorado.

#### 4. TECHNICAL DATA

**Applicable Standards:** Meets Federal Specification TT-S-00227E, Type II, Class B and ASTM C-920, Type M, 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

#### PACKAGING

- 1.5 gallon unit (5.7 L) including Base and Activator.

#### COLOR

- Pecora's Color-Pack system has pre-measured tint paste for 50 standard colors. It is not necessary to add a Color Pack if DynaFlex™ is to be painted after cure; however, this will tend to increase the hardness of the sealant.
- Custom colors are available upon request, minimum 15 color packs.

should be maintained at 1/2" (50 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
Adhesion to Concrete (pli)	25	ASTM C794
Elongation (%)	175-200	ASTM D412
Full Adhesion (days)	7	Pecora Corporation
Full Cure (days)	7	Pecora Corporation
Hardness, Shore A (2 days)	40-45	ASTM C661
(Ultimate*)	55±5	ASTM C661
Tack-Free Time (hrs)	10	ASTM C679
Tear Strength (ppi)	60	ASTM D624
Tensile Strength (psi)	300-350	ASTM D412
VOC Content: Activator (g/L)	<25	ASTM D3960
Base (g/L)	<100	ASTM D3960

\*Hardness may fluctuate from this value due to variations in field mixing, application of sealant, temperature and humidity.

**Priming:** Security caulking demands exceptional adhesion, particularly in isolated containment areas like inmate living cells, etc. Since Dynaflex's higher hardness puts extra stress on the bond line, P-75 or P-200 epoxy primer should always be used on porous substrates to obtain superior adhesion. Steel, aluminum, and glass should be primed with P-100. When applying Dynaflex over block that has been sealed with a block-filler, priming may also be necessary. A field test should always be conducted to confirm satisfactory adhesion. Contact Technical Services (800-523-6688) for other recommendations for 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:** The Base and Activator (nested in the Base container) are formulated and pre-measured to function as a unit. The two components should be blended thoroughly along with the desired Color Pack in accordance with mixing instructions appearing on the container label.

Apply sealant to joints using standard caulking equipment.

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

**Cleaning:** Mechanically remove excess sealant. Wipe up residues with a small amount of mineral spirits on a rag following appropriate safety precautions on the supplier's MSDS or allow residues to cure and remove mechanically to decontaminate the area thoroughly.

**Application Life:** Approximately three (3) hours at 77°F (25°C), 50% Relative Humidity. Higher temperatures and humidity shorten this application life. For maximum pot-life, store material in a cool, dry place prior to mixing. If warming is necessary, do not heat above 120°F (49°C).

**Painting:** Dynaflex is offered in a wide range of colors to eliminate the need for painting. However, it can be painted if so specified. A high-quality latex is the best choice, but good oil-based paints 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 dry or cured before Dynaflex is applied against them or an area of incompatibility will result.

**Storage Life:** Dynaflex 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). Dynaflex performs equally well during any part of this shelf life.

**Precautions:** Contains diisocyanates. Contact with uncured sealant or with dust formed from cured sealant may cause eye, skin, or respiratory tract irritation or allergic reaction. Repeated contact with uncured product may, without symptoms, increase susceptibility of these effects. Do not breathe vapor or dust. Use only with adequate ventilation or wear an appropriate NIOSH-approved respirator. Do not get in eyes or on skin or clothing. Wear chemical resistant gloves and eye protection. Wash thoroughly after handling. 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 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

- Sweet's Catalog File: [www.sweets.com](http://www.sweets.com)
- General Building
  - 07100 Waterproofing
  - 07920 Sealants
- Civil Engineering
  - 07100 Waterproofing



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