

1. PRODUCT NAME

DYNAFLEX™ Polyurethane Flexible Security Sealant

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

Dynaflex is a unique two-part, non-sag elastomeric polyurethane joint sealant with many of the strengths of an epoxy but with the flexibility and user-friendly ease-of-application properties of a urethane.

Dynaflex is designed to achieve high tensile and tear strengths, abrasion resistance and an ultimate hardness of 55±6, 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 as well in other public buildings and facilities where ordinary sealants are easily damaged or torn out by idle tampering and acts of vandalism.

Dynaflex not only is more flexible than epoxy in composition but also in color selection. With today's emphasis on aesthetics and the psychological effects of surroundings on occupants, Dynaflex's wide color range fill this need.

Note: In high security areas where a harder material is required and flexibility is less important, Pecora EP-1200 Dynapoxy with a Shore A of 95± and higher compressive strength is recommended.

Basic Uses: Dynaflex is an all purpose security sealant. It should be used in all interior expansion and control joints, window and door perimeter joints, protrusions and penetrations, vents, around all fixtures and in all other interior joints or openings of any kind (masonry-to-masonry, masonry-to-metal, or metal-to-metal) requiring a sealant. Also, Dynaflex has good adhesion to polycarbonate sheet and is a recommended sealant for interior security glazing. Priming may be required.

TYPICAL PHYSICAL PROPERTIES

Nonvolatile Content	100%
Hardness, Shore A (2 days @ 75°F., 25°F, 50% R.H.)	40-45
*Hardness, Shore A Ultimate, ASTM C-661	55±6
Tensile Strength	375-400 psi 2586-2758 kPa
Tear Strength	160 psi 1103kPa
Adhesion to Concrete	25 pli/4.3kN/m
Elongation	175-200%
Tack Free Time @ 77° F., 25°F, 50% R.H.)	6 hours
Cure Through @ 77° F., 25°F, 50% R.H.	7 days
Full Adhesion	7 days

**Hardness may fluctuate from this value due to variations in field mixing and application of sealant*

Please consult Technical Services before writing specifications on this product.

Limitations: Dynaflex is not to be used in active joints experiencing movement greater than ±12-1/2% in compression or extension. The sealant should not be used in areas where it may come into contact with food products. Nor should it be used in areas where it may be subjected to harsh chemicals such as acids, strong alkalis, ketones, etc.

Packaging: Standard package is a 1 1/2-gallon unit (346.5 cu. in.) (5.7 L), including Base, Activator and Tint Paste.

Colors: Color-Pack system has pre-measured tint paste for 12 standard and 32 Special Color-Flex Designer colors with a wide range of custom colors available on request. It is not necessary to add color paste if Dynaflex is to be painted after cure; this will tend to increase the hardness of the sealant.

FIRE RATED SYSTEMS:

Two-hour fire and temperature rated wall, Design U900Z001 (WWS0021) and floor, Design J900V (FFS0017) 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 1996 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, CO.

4. TECHNICAL DATA

Applicable Standards: Meets Federal Specification TT-S-00227E, Type II, Class B and ASTM C-920-95, 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 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.

Priming: Security caulking demands exceptional adhesion, particularly in 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 this superior adhesion. Steel, aluminum, and glass should be primed with P-100. When applying Dynaflex 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: 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 colorant 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, toluene* or xylene* is recommended.

Cleaning: Remove compound from hands and equipment before it cures, using Methyl Ethyl Ketone* (lacquer thinner) or aromatics such as toluene* or xylene*. These solvents are not effective after cure; remove cured compound by scraping, sandblasting or softening with chlorinated solvents*.

**(Solvents mentioned are toxic and flammable; observe solvent manufacturers precautions and refer to Material*

Safety Data Sheets).

Application Life: Three (3) hours at 75° F. (24° 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 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 dry or cured before Dynaflex is applied against them or an area of incompatibility will result.

Precautions: The activator portion of this product contains diisocyanates. Avoid prolonged contact with skin and eyes. Wash hands thoroughly after use and before eating or smoking. Upon accidental contact with eyes, flush thoroughly with water. Seek medical attention immediately. 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 our plants and warehouses in Harleysville, PA and Dallas, TX, or from stocking distributors in all major cities. For the name and telephone number of your nearest Pecora representative call one of our locations listed below, or call Sweet's "Buyline" 0159 at 1-800-633-1180. Our representatives can give you prices or put you in touch with the nearest stocking distributor.

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. 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.

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

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 Services department at 215-723-6051 or 800-523-6688.