DynaFlex™

Flexible Polyurethane Security Sealant

Specification Data Sheet

PECORA CORPORATION

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

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™ 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, 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.

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

• In heavy pedestrian traffic joints experiencing excessive movement, periodic maintenance may be needed.

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 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.

PACKAGING

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

COLOR

• Color-Pack system has pre-measured tint paste for 12 standard and 32 Special Color-Flex Designer colors with unlimited custom colors available on request. 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.

• Visit custom color tools on www.pecora.com to assist in custom color selection (minimum 15 color pak).

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 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.

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 (hours)	10	ASTM C679
Tear Strength (ppi)	160	ASTM D624
Tensile Strength (psi)	375-400	ASTM D412
VOC Content:: Activator (g/L)	0	ASTM D3960
Base (g/L)	80	ASTM D3960

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

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 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: 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.)

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: The activator portion of this product contains isocynates. 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, or from stocking distributors in all major cities. For the name and telephone number of your nearest representative call one of our locations listed 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. 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

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

ISO 9001:2000
KEMA CERTIFICATE
Accredited by ANSI-RAB NAP

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