

DynaTrol™ II

General Purpose Polyurethane Sealant

Specification Data Sheet



BASIC USES

- Expansion/control joints in:
 - Precast panels
 - Tilt-up precast panels
 - Curtain walls
- Window/door perimeters
- Glazing
- Acoustical
- Firestopping
- EIFS
- Bedding panels

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

DynaTrol™ II is a general purpose, 2-part, non-sag, elastomeric sealant that creates a tenacious bond and watertight seal between materials of similar or dissimilar surface textures, porosities, and/or expansion coefficients.

Fire Rated Systems: Four-hour fire and temperature-rated Wall and Floor Design Joint Systems up to 3" (75 mm) wide can be designed with ULTRA BLOCK® fire-blocking material and/or mineral wool fire safing.

These designs have been full-scale tested and classified by Underwriters Laboratories, Inc. and appear in the 2003 UL Fire Resistance Directory, Vol. 2.

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

Consult Technical Bulletins # 85J and # 85P for a complete listing of Pecora Firestop Systems.

ULTRA BLOCK® is a product of Backer Rod Mfg. Co., Denver, CO.

Limitations: DynaTrol II should not be used:

- as a cap, heel or toe bead in glazing systems utilizing high-performance glass or acrylic polycarbonate sheet
- in areas exposed to harsh chemicals

PACKAGING

- 1 1/2-gallon (5.7 L) unit including Base and Activator
- Color Pack is packaged separately

COLOR

- Color-Pack system has pre-measured tint paste for 49 standard colors
- Custom colors are available upon request; minimum: 15 color packs
- Visit Custom Color Tools at pecora.com to assist in custom color selection
- The base material is not to be used without addition of color

4. TECHNICAL DATA

Applicable Standards

Federal Specification TT-S-00227E, Class A, Type II; ASTM C-920, Type M, Grade NS, Class 25, use NT, M, A, G and O, and City of Los Angeles RR25071.

Joint Design: Good joint design in the construction industry dictates four times (4x) the anticipated movement of building components be used when calculating joint width. The theoretically derived 2:1 movement factor is based on thermal movement alone and does not allow for variances found at the jobsite and therefore should not be used.

The 4:1 design factor accommodates both thermal movement and wide variations in tolerances of construction materials, fabrication and erection often found in the field. This will also accommodate joints installed narrower than originally designed. The width or depth of the joint should not

be less than 1/4" (6 mm). In joints up to 1/2" (12 mm) wide, the depth of the sealant should be equal to the width. In joints wider than 1/2" but not exceeding 2" (50 mm), the depth should be maintained at 1/2". For joints wider than 2", please consult our Technical Services department.

DynaTrol II withstands structural movement of 50% extension and 50% compression without adhesive or cohesive failure in properly designed joints.

Joint sealants do not change volume with expansion or compression - only shape; the greater the change in shape (strain), the greater the stress on the sealant and bond line.

5. INSTALLATION

Surface Preparation: Joint surfaces must be dry, clean and free of all contamination. Glass, metal and other nonporous surfaces must be free of any coatings and wiped clean with solvent. Precast panels using form-release agents other than polyethylene film must be sandblasted or mechanically abraded and blown or brushed dust free.

Priming: Not required on glass or anodized aluminum and usually not necessary on most other common building materials. However, varieties of brick, natural stone, plastics, paints, coatings and other surface treatments often present the need for priming.

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

Test Property	Value	Test Procedure
Adhesion-in-peel, pli	28 (4.9 kN/m), no adhesion loss*	ASTM C794
Adhesion-in-peel after UV exposure, pli	28 (4.9 kN/m), no adhesion loss*	ASTM C794
Cyclic movement	no bond loss**	ASTM C719
Effect of accelerated weathering	no cracking	ASTM C793
Effect of heat aging, % wt. loss	1.4	ASTM C792
Extrusion rate, secs	4	ASTM C603
Hardness, Shore A	25-35	ASTM C661
Slump, inches	0	ASTM C639
Stain & color change	none	ASTM C510
Tack-free time, hrs	8-16	ASTM C679
VCO content: activator, g/L	0	ASTM D3960
base, g/L	14	ASTM D3960
Working time, hrs	4-5	ASTM C603

- * aluminum, glass and primed concrete substrates
- ** when tested for ±50% movement

Due to the number and unpredictable nature of these substrates, a field or laboratory test is recommended to determine the adhesion of DynaTrol II with or without primer. When priming is indicated, P-75 or P-150 should be used on porous substrates and P-120 on nonporous substrates or consult Technical Services. Sealant should be applied within 8 hours after priming; otherwise, it will be necessary to reprime.

All Exterior Insulation Finish Systems must be primed with P-75 or P-150 as required by manufacturers of various EIFS systems. Also, because architectural stones such as marble and granite vary considerably in porosity, some bleeding of the sealant into the substrate is possible. Again, a field or laboratory test to confirm this possibility is recommended.

Pecora offers complimentary adhesion, compatibility and stain testing in its laboratory on actual field samples of substrate from the jobsite or on representative samples from the same lots. Contact Technical Services for details.

Joint Backing: Backer rod controls the depth of the sealant and allows it to be applied under pressure. Closed-cell polyethylene or open-cell polyurethane is recommended. Use a size that will compress 25% when inserted into the joint. In joints too shallow for backer rod, use a bond-breaker tape to prevent undesirable three-sided adhesion.

Application: The Base and Activator (nested in Base container) are formulated and pre-measured to function as a unit. Do not interchange Base or Activator components from one shipment with those from another. The two components should be blended thoroughly along with the desired Color Pack for a minimum of six (6) minutes in accordance with mixing instructions appearing on the container label.

Do not thin with solvents or adulterate it in any way. Apply sealant to joints, using standard caulking equipment. Application life is 3-4 hours at 77°F (25°C), 50% R.H. Higher temperature and/or humidity will shorten this application life.

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

Painting: Due to variability in paint products and their raw materials, installation conditions, installation techniques as well as primers, it is required that contractors who apply paint, pretest paint onto sealant, to determine suitability. Oil based paints can exhibit a slow/non-curing condition. Field test is required and user must determine suitability. Paintable after 72 hours. Consult Technical Bulletin # 31 for further information.

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

Storage Life: DynaTrol II 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). DynaTrol II performs equally well during any part of this shelf life.

Precautions: Toxic. The Activator portion of DynaTrol II contains diisocyanates. Avoid prolonged breathing of vapors and contact with skin or eyes. Wash hands after use and before eating or smoking. Upon accidental contact with eyes, flush with water and seek medical attention at once. ULTRA BLOCK® is a noncarcinogenic, processed, continuous-filament, textile glass fiber that may cause skin, eye and respiratory irritation. When applying, wear long sleeves, gloves, cap, goggles or safety glasses and NIOSH/MSHA approved dust respirator. After use, bathe with soap and warm water. Wash clothes separately and rinse after use.

Refer to Material Safety Data Sheets for additional information.

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

6. AVAILABILITY AND COST

Pecora products are available from our 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 Pecora 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

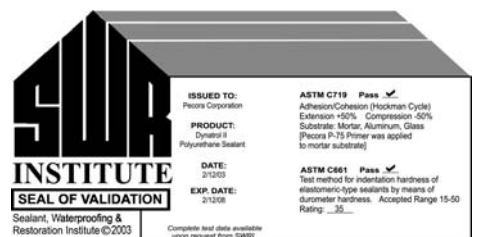
If the sealant is damaged and the bond is intact, cut out the damaged area and prime with P-75 or P-150 primer and recaulk. If the bond has been affected, remove the sealant, clean and prepare the joint in accordance with instructions under "Installation".

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
 - 07915 Sealants
- Civil Engineering
 - 07100 Waterproofing



HARLEYSVILLE, PA

165 Wambold Road, Harleysville, PA 19438
Phone: 800-523-6688 • 215-723-6051 • FAX: 215-721-0286

DALLAS, TX

11501 Hillguard Road, Dallas, TX 75243
Phone: 800-233-9754 • 214-348-5313 • FAX: 214-348-5421