

DynaTrol™ I-XL

General Purpose Polyurethane Sealant

Specification Data Sheet



1. BASIC USES

Dynatrol™ I-XL is intended for use in expansion and control joints in precast panels, tilt-up walls, metal curtain walls, copings, window and door perimeters, panel bedding and glazing details.

2. MANUFACTURER

Pecora Corporation
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Harleysville, PA 19438
Phone: 215-723-6051
800-523-6688
Fax: 215-721-0286
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3. PRODUCT DESCRIPTION

Dynatrol™ I-XL is a moisture-curing, single-component non-sag polyurethane sealant. It is designed to maintain an effective bond and seal between materials of similar and dissimilar surfaces, porosities and coefficients of expansion.

Limitations: Dynatrol™ I-XL should not be used:

- as a cap, heel or toe bead in certain glazing installations with high-performance glass or plastic.
- in joints less than 1/4" (6 mm) in depth.
- in joints where contact may be made with polysulfide sealants.
- in areas exposed to harsh chemicals.
- on certain architectural paints and finishes without laboratory or field testing.
- in horizontal joints subject to vehicular traffic unless protected by a wearing surface.
- Although Dynatrol™ I-XL is considered a paintable sealant, due to variability in paint products and their raw materials, installation conditions, installation techniques, as well as primers, it is required that the contractor who applies paint, pretest paint on sealant to determine suitability. Contractor is responsible for

test as well as results. Oil based paints can exhibit a slow/non-curing condition. Field-test is required and user must determine suitability. Paintable after 7 days.

PACKAGING

- 10 fl. oz. (300 ml) cartridges
- 20 fl. oz. (592 ml) sausages
- 2-gallon (7.57 L) pails (special order)

COLOR

- Black, Limestone, Aluminum Stone, White, Off-White, Bronze, Tan, Beige, Natural Stone, Classic Bronze and Anodized Aluminum.

4. TECHNICAL DATA

Applicable Standards: Meets Federal Specification TT-S-00230C, Type II, Class A and ASTM C-920 Type S, Grade NS, Class 25, Use NT, M, A, G and O. U.S.D.A. acceptance for use in meat and poultry plants.

Movement Capability: 25% extension; 25% compression. Joint sealants do not change volume with expansion or compression, only shape; the greater the change in shape, the greater the stress on the sealant.

Joint Design: The width of the joint should be a minimum of four (4) times the anticipated movement. The width or depth

of the joint should not be less than 1/4" (6 mm). In joints up to 3/8" (9 mm) wide, the depth of the sealant should be equal to the width. In joints wider than 3/8" (9 mm), but not exceeding 1-1/4" (31 mm), the depth should be maintained at 3/8" (9 mm). For joints wider than 1-1/4" (31 mm), please consult Technical Services.

5. INSTALLATION

Surface Preparation: Joint surfaces and backer rod must be dry and free of all contaminants such as oil, grease, wax, dust, corrosion, tar, asphalt, loose aggregate, frost, form-release agents and decorative and protective coatings. Precast panels using form release agents other than polyethylene film must be sandblasted or mechanically abraded and blown or brushed dust free. Glass, metal and other nonporous surfaces must be free of any coatings and wiped clean with solvent.

Priming: Never a substitute for proper surface preparation, priming is 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 treatments of surfaces often present difficult substrates to which to adhere. Due to the number and unpredictable nature of these substrates, a field or laboratory test is recommended to determine the adhesion

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

Test Property	Value	Test Procedure
100% Modulus (psi)	65	ASTM D412-75
Adhesion-in-Peel (pli)	20	ASTM C920
Bond Durability-Class 25	Passes	ASTM C920
Hardness, Shore A (15-50)	35	ASTM C920
Service Temperature Range	-20°F to +180°F (-29°C to 82°C)	
Stain and Color Change	Passes	ASTM C920
Tack Free Time (hrs) (max 72 hrs)	4-8 hrs	ASTM C679
Tensile Strength (psi)	175	ASTM D412-75
Ultimate Elongation (%)	550	ASTM D412-75
Weep and Sag (max 3/16")	Passes	ASTM C920
Weight loss after heat aging (max 10%)	Passes	ASTM C920
VOC (g/L)	<100	ASTM D3960

of Dynatrol™ I-XL 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 subject to applicable VOC regulations or consult Technical Services. Never use P-75 or P-150 on nonporous substrates.

Dynatrol™ I-XL should be applied within eight hours after priming; otherwise, it will be necessary to reprime.

Because architectural stones such as marble and granite vary considerably in porosity, some bleeding of the sealant into the substrate is a possibility. A field or laboratory test to confirm this possibility is recommended.

Pecora offers complimentary adhesion 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. Use a size that will compress 25%.

Denver Foam open-cell polyurethane or reticulated (soft) polyethylene rod is recommended. Closed-cell polyethylene may be used but care must be taken not to puncture the rod which can cause outgassing or bubbling/blistering in the sealant.

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. Sealant should be applied in a continuous operation using sufficient pressure to fill the joint and make complete contact to the joint sides. Tool the sealant slightly concave using solvent or dry-tooling techniques. Do not tool with soap or detergent and water solutions.

Tool Time (initial skin): 5-6 hours at 77°F (25°C); 50% relative humidity Higher temperatures and/or humidity will shorten this time.

Cleaning: Use mineral spirits* to remove excess sealant before it cures and to clean equipment.

*(Toxic and flammable. Use with caution and refer to solvent manufacturer's instructions and Material Safety Data Sheets).

Storage Life: One-Part urethanes are extremely moisture and heat sensitive. Dynatrol™ I-XL has a warranted shelf life of twelve months from date of shipment from the factory when stored in original unopened cartridges or sausages at conditions not exceeding 80°F (27°C), 50% R.H. Consistently higher temperatures and/or humidity will shorten this shelf life. No shelf life is warranted on bulk packages of Dynatrol™ I-XL.

Precautions: Contains diisocyanates. Contact with uncured sealant, with vapors generated during curing, or with dust formed from cured sealant may cause eye, skin, or respiratory tract irritation or allergic reaction. Do not breathe fumes, dusts, vapors or mist. Keep container closed. Use only with adequate ventilation or wear an appropriate NIOSH-approved respirator. Harmful if swallowed. Do not swallow or take internally. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Keep away from heat, sparks and flame. Repeated contact may, without symptoms, increase susceptibility of these effects. 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 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 installed in accordance with our published recommendations and in application 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 recaulk. No primer is required. If the bond has been affected, remove the sealant, clean and prepare the joint in accordance with the 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



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