

BASIC USES

- Exterior and interior caulking of door and window perimeters
- Expansion and control joints
- Coping and coping to facade joints
- Cornice and wash joints
- Pre-cast tilt-up panels
- EIFS and architectural panels
- Underside of precast planks
- Top of non-load bearing walls
- Fiber cement siding
- Where the versatility of field tinting through the use of our universal color packs.

Suited for various manufacturing uses:

- Production of travel trailers and mobile homes
- Extruded PVC window and doors
- Seam sealer and adhesive for automotive and other OEM manufacturing applications.

Advantages:

- Ability to produce virtually any color in the field through use of Pecora's universal color pack system and color matching services.
- Non-Staining
- Non-Yellowing
- Paintable as soon as tack free
- Isocyanate free
- Exceptional adhesion
- Moisture tolerant
- Low VOC
- No shrinkage
- Minimal dirt pick-up
- Low odor
- Non-gassing
- Long life
- Fast Cure
- Adhesion to green concrete

Limitations:

Sealant should not be used:

- For structural glazing
- For use in water immersion applications contact Technical Service.
- For glazing applications contact Technical Service.

PACKAGING

- 1.5 gallon (5.68 L) units

COLORS

- Dynatrol I-XL FTH is available in 51 standard colors (see color chart for details)
- Unlimited range of custom colors. (certain restrictions may apply).

TECHNICAL DATA

Applicable Standards: Meets or exceeds the requirements of ASTM C-920, Type S, Grade NS, Class 50, Use NT, T1, G, M, A and O. Sealant complies with appropriate USDA requirements for use in Federally inspected meat and poultry plants. Consult Typical Properties Chart for specific testing properties.

MANUFACTURER

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PRODUCT DESCRIPTION

Dynatrol I-XL FTH is field tintable and based on a unique hybrid STPU (silyl-terminated polyurethane) differentiating it from the standard Dynatrol® I-XL urethane-based sealant. The STPU chemistry utilized by the Dynatrol I-XL FTH formula allows for a low odor, non-staining, non-yellowing, one-part, moisture curing, gun-grade, isocyanate free sealant. It has been developed specifically for sealing dynamic joints between dissimilar materials, of varying coefficients of expansion and contraction on both porous and non-porous surfaces. It cures to a low modulus rubber with extraordinary adhesion, capable of accommodating joint movement of ±50% of the original joint width. It does not yellow, crack or craze on long term exposure to UV light.

TABLE 1: TYPICAL UNCURED PROPERTIES AT 75°F (24°C), 50% RH

TEST PROPERTY	VALUE	TEST PROCEDURE
Cure Time 1/8" Bead (Hours)	24	Pecora Corporation
Extrusion Rate @ 30PSI, 1/8" Orifice (Gms./Min.)	51	ASTM D2202
Sag (Inch)	0.05	ASTM D2202
Tack-Free Time (Hours)	2.5 - 3	ASTM C679
Tooling Time (Min.)	30	Pecora Corporation
Viscosity, #7 @ 10 RPM (Cps.)	300,000	ASTM D2196
VOC (g/L)	18	ASTM D3960
VOC Emissions (TVOC)	<2 ug (0.002 mg)/cu m	CDPH v1.1-2010

TABLE 2: TYPICAL CURED PROPERTIES AT 75°F (24°C), 50% RH

TEST PROPERTY	VALUE	TEST PROCEDURE
Bond Durability - Class 50	PASS	ASTM C719
Elongation at Break (%)	1,400	ASTM D412
Hardness, Shore A	27	ASTM D412
Peel Adhesion to (Pli; % Cohesive)		
Aluminum (Unprimed)	30; 100	ASTM C794
Concrete (Unprimed)	30; 100	ASTM C794
Modulus @100% elongation	30; 100	ASTM C794
Tensile Strength @ 100% Elongation (PSI)	35	ASTM D412
Tensile Strength, Ultimate (PSI)	180	ASTM D412
Service Temperature (°F)	-40 to 195	Pecora Corporation
Staining of Porous Substrates (White Marble)	PASS	ASTM C1248
Tensile Adhesion Properties		
Ultimate Tensile Strength (PSI)	140	ASTM C1135
Ultimate Elongation (%)	605	ASTM C1135

INSTALLATION

Joint Design: Proper sealant dimensions are critical when installing elastomeric joint sealants. Generally, a sealant width-to-depth ratio of 2:1 is recommended. Dynamic joint conditions will require a minimum 1/4" width and 3/16" depth in order to maintain the sealant's movement capabilities. For joints greater than 1" wide, please consult Technical Service.

Surface Preparations: Joints to receive sealant must be sound, smooth, uniform in dimensions and free from defects and foreign materials. They must also be clean, dry, free of frost and all contaminants, such as curing, compounds, sealers, waterproofing, coatings, etc.

Priming: Dynatrol I-XL FTH has excellent adhesion to most common substrate materials. In some applications it may be necessary to use a primer. For porous surfaces Pecora P-150 or Pecora P-225 is recommended. For non-porous surfaces Pecora P-120 is recommended. For specific questions regarding primer use, please consult Technical Services.

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.

Mixing: Remove plastic film. In the event skinning developed during storage, remove and discard prior to mixing. Pour contents of Pecora universal color pack into pail using a spatula to scrape as much color tint from container as possible. For best overall appearance, use the Albion® 381-G01 4 inch mixing paddle or Pecora #2 mixing paddle (or other comparable mixing paddle). Do not over mix. Mix for about 1 minute, moving drill throughout material while avoiding contact with pail. Scrape any unmixed material from sides and bottom of can with flat-edge spatula or margin trowel. Continue mixing for 1-2 minutes or until a uniform color is achieved. Do not exceed 4 minutes total mixing time. Use clean bulk caulking gun for sealant application. Dry tooling is recommended. If a slicking agent is required, use mineral spirits.

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 dry tooling techniques.

Tool Time (Initial Skin): 30 minutes at 77° (25°C); 50% relative humidity. Higher temperatures and/or humidity will shorten this time. Lower temperatures and/or humidity will lengthen this time.

Cleaning: Immediately remove all excess sealant and smears adjacent to joints with mineral spirits. For equipment cleanup, use iso-propyl alcohol or mineral spirits. Consult manufacturer's SDS for handling and safety precautions.

Shelf Life: Twelve months when stored in original, unopened container in a dry area at temperatures below 80°F.

Precautions: Use sealant in well ventilated areas. Keep away from heat and flame. Do not take internally. Call a physician if swallowed. Avoid eye and skin contact. For additional health and safety information, consult manufacturer's SDS.

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

AVAILABILITY & 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.

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.

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."

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.

FILING SYSTEMS

- CSI MasterFormat Designation - 07 92 00: Joint Sealants

Since Pecora Architectural Sealants are applied to varied substrates under diverse environmental conditions and construction situations it is recommended that substrate testing be conducted prior to application.



SEALANT • WATERPROOFING & RESTORATION INSTITUTE

Issued to: Pecora Corporation
Product: Dynatrol™ I-XL Hybrid Sealant

C719: Pass Ext: +50% Comp: -50%

Substrate: Unprimed anodized aluminum and glass substrates

Validation Date: 9/29/17 – 9/28/22

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SEALANT VALIDATION
www.swrionline.org

