DynaTrol® II-SL

Two-Component, Self-Leveling, Traffic-Grade, Field Tintable, Polyurethane Joint Sealant

PECORA CORPORATION

SPECIFICATION DATA SHEET

BASIC USES

Dynatrol II-SL is designed specifically for sealing traffic bearing expansion joints in parking decks, ramps, driveways, highways, bridge approaches, stadiums, industrial flooring, and applications requiring jet fuel resistance. It is equally effective in sealing horizontal joints in sidewalks, terraces, pedestrian plazas, patios, swimming pool decks and copings.

MANUFACTURER

Pecora Corporation
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Fax: 215-721-0286
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PRODUCT DESCRIPTION

Dynatrol II-SL is a two-component, chemically-curing, cold-applied, self-leveling, field-tintable, elastomeric, polyurethane sealant which is abrasion resistant and highly extensible to withstand long-term abuse and dynamic movement up to +/-50%. Dynatrol II-SL is approved for use in sloped joint conditions up to 15%. Refer to Limitations section for recommended sealants in areas where the slope exceeds 15%. Dynatrol II-SL is approved for use with all Pecora-Deck Traffic Coating systems.

NOTE: Pecora Dynaflex two-part, non-sag, high durometer hardness, polyurethane joint sealant is recommended for use in control and construction joints in interior industrial flooring subjected to fork truck traffic as well as in areas of pedestrian traffic where firmer support and resistance to puncture (i.e. high heels) is necessary.

LIMITATIONS:

Dynatrol II-SL should not be used:

- Where slope exceeds 15%. Pecora Dynatred or Dynaflex two-part, non-sag polyurethane sealants should be used.
- If rain is eminent.
- Where susceptible to damage from snowplows and studded tires.
- In joints where it will be continuously immersed in harsh chemicals such as acids, strong alkalis, ketones, etc.
- In longitudinal expansion joints greater than 2" (50 mm) wide that are intended to be used as a constant traveling surface.

TECHNICAL DATA

Applicable Standards: Meets ASTM C920, Type M, Grade P, Class 50, Use T1, M, and O. ASTM C1247 Continuous Immersion in Liquids. Federal Specifications TT-S-00227E, SS-S-195B, and SS-S-159B, and SS-S-200E, Type M. Dynatrol II-SL is considered USDA compliant and may be used in meat and poultry plants.

Joint Design: The width or depth of the sealant should not be less than ¼" (6mm) when installed in dynamic joints (i.e. expansion joints). In dynamic joints up to ½" (12mm) wide, the depth of the sealant should be equal to the width. In dynamic joints wider than ½" (12mm) but not exceeding 2" (50mm) the depth should be maintained at ½" (12mm). For joints wider than 2" (50 mm) consult Pecora Technical Services. Static joints less than ¼" wide may be sealed with the Dynatrol II-SL.

INSTALLATION

Surface Preparation: Joint surfaces must be clean and dry. The presence of moisture may cause off-gassing before the sealant achieves full cure. Oil, grease, wax, form-release agents, curing compounds, bitumens, laitance, and old caulking materials must be removed by sandblasting or sawing to sound, virgin concrete for optimum sealant performance.

Priming: Primer is not typically required on concrete substrates. If field testing indicates primer is required, Pecora recommends the P-75, P-150 or P-200 primers on masonry and the P-120 primer on metal. Refer to product datasheets for primer dry times. Consult Pecora Technical Service for specifics regarding primer selection.

Important Note: Primers should not be allowed to dry over eight (8) hours before application of the sealant or they must be reapplied.

Joint Backing: Backer rod should be used to control the sealant depth and cushion it from impact. Closed-cell polyethylene is recommended. Use a size that will compress 25% when inserted into the joint.

PACKAGING

- 1.5-gallon (5.7L) units
- 3-gallon (11.3L) units

COLOR

- Limestone
- Field-Tintable: Neutral base is available and will require the use of Universal Color Packs. Universal color packs sold separately.

TABLE 1: TYPICAL PHYSICAL PROPERTIES At 75˚F (24˚C), 50%R.H.

Test Property	Value	Test Procedure
Solids Content (%), by wt.	100	Pecora Corporation
VOC g/L (mixed)	14	ASTM D3960
Pot Life (hours)	1 to 1.5	Pecora Corporation
Open to Traffic, hours	24-48	Pecora Corporation
Full Cure, days	7	Pecora Corporation
Adhesion to Concrete (pli)	25	ASTM C794
Bond to Concrete:*		
Non-Immersed	Pass, no bond loss	Fed. Spec. SS-S-200E
Immersed	Pass, no bond loss	Fed. Spec. SS-S-200E
Fuel-Immersed	Pass, no bond loss	Fed. Spec. SS-S-200E
Hardness, Shore A (points)	20 - 25	ASTM C661
Elongation (%)	430	ASTM D412
Tensile Strength (psi)	75	ASTM D412
Dynamic Movement Capability (%)	± 50	ASTM C719
Service Temperature Range	-20° to 180°F (-29° to 82°C)	Pecora Corporation
Application Temperature**	20°F(-7°C) to 120°F(49°C)	Pecora Corporation

* Testing conducted with no primer. ** Applies to both ambient and substrate temperatures.

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.

For the most up to date information, please visit our website at pecora.com.

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Do not over compress or puncture the backer rod during installation or blistering could occur in the sealant. Non-porous, semi-rigid backing materials may be used if bond breaker tape is applied to prevent adhesion to this type of material. Dynatrol II-SL should not be installed over impregnated fiberboard, sand, or porous fillers capable of absorbing and retaining water.

Mixing: Activator and base components are packaged in exact ratio for use. Mix as supplied using the Albion Engineering model 381-G04 mixing paddle (refer to illustration below) or comparable. Do not attempt to mix partial units and risk the probability of a partially or non-curing sealant. Thoroughly blend the activator and base for a minimum of (2) two minutes using a slow-speed, heavy-duty drill. The addition of universal color pack/s is required if using the field-tintable neutral base. Use one (1) universal color pack per 1.5-gallon unit or two (2) universal color packs per each 3-gallon unit. Extrude entire contents of color pack/s and mix into base along with the activator. Avoid overmixing which can entrain air in the sealant causing bubbling and blistering.



ALBION MODEL 381-G04

Application: Immediately after mixing begin filling joints by pouring or using a bulk caulking gun to dispense sealant. Sealant may be installed flush with the traffic surface. Sealant is self-leveling and tooling is not required but can be performed in order to fill in any voids and/or eliminate any bubbles that may have potentially formed due to air entrapped during mixing. Joints that measure 3/8" (10 mm) wide or less may need to be tooled to break the surface tension and allow the sealant to flow properly into the joint. Any gaps present between the backer rod and joint surfaces could result in the sealant seeping past the backer rod causing surface voids. If this occurs allow the sealant to cure then apply additional sealant to fill the any voids. Refer to the Table of Physical Properties for expected pot life and sealant cure times.

Sealant should be installed when both ambient and substrate temperatures are between 20˚F (-7˚ C) to 120˚F (49˚ C). Higher temperature and/or humidity will shorten the application life. For maximum application life store the material in a cool, dry place prior to mixing.

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.)

Storage Life: Approximately 12 months when stored below 80˚ F (27˚ C) in the original, unopened containers.

Precautions: Dynatrol II-SL contains diisocyanates. Use with adequate ventilation or wear an appropriate NIOSH-approved respirator. Contact with uncured sealant or with vapors generated during curing may cause respiratory tract irritation. Contact with skin or eyes may cause irritation or allergic reaction. Avoid contact and wash thoroughly after handling. May be harmful if swallowed.
Refer to Safety Data Sheet (SDS) for more information.

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

AVAILABILITY AND 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 nay 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.

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 the Technical Service Department at 800-523-6688.

FILING SYSTEMS

CSI MasterFormat® Designations:

- 07 18 00 Traffic Coatings
- 07 92 00 Joint Sealants

SEALANT • WATERPROOFING & RESTORATION INSTITUTE

Issued to: Pecora Corporation
Product: Dynatrol II SL
C719: Pass ✔ Ext:+50% Comp:-50%
Substrate: Unprimed anodized aluminum, anodized aluminum [primed with Pecora P-120 Primer], glass unprimed, mortar (concrete) [primed with Pecora P-75 Primer]
Validation Date: 1/16/2024 - 1/15/2029
No. 24SL-2029 *Copyright © 2024*
SEALANT VALIDATION
www.swrionline.org

Pecora is a member of and supports: SWRI, CSI, AIA, ICRI, ABAA, USGBC, IPI.
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