

DynaTrol® II-SG

Self-Leveling, Polyurethane Slope Grade, Traffic-Grade Sealant

Specification Data Sheet



1. BASIC USES

- For sealing traffic-bearing expansion joints in parking decks and ramps, drive-ways, highway, bridge approaches, stadiums and industrial flooring.
- For sealing horizontal joints in sidewalks, terraces, pedestrian plazas and malls, patios, swimming pool decks and copings.

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-SG is a two-part, chemically-curing, cold-applied and self-leveling elastomeric sealant, which is very abrasion resistant and highly extensible to withstand long-term abuse, and dynamic movement.

Available in 5% and 15% slope grade versions.

Recommended Options: In control and construction joints in interior industrial flooring subjected to fork truck traffic, Pecora DynaFlex two-part high durometer urethane is recommended for better protection against joint edge spalling. In areas of pedestrian traffic where firmer support and resistance to puncture (i.e. high heels) is considered more important than elongation and flexibility, Pecora Dynaflex two-part, non-sag polyurethane sealant with a 55 Shore A hardness is recommended. Dynatred and Dynaflex should be used where joint slope exceeds 15%.

Limitations: Despite its abrasion resistance, Dynatrol® II-SG is susceptible to damage from snow plows and studded tires. It should not be used in areas where it will come into more than incidental contact with harsh chemicals such as acids, strong alkalis, ketones, etc. Contact

Technical Services for additional recommendations and limitations. Dynatrol® II-SG does not have USDA approval for use in meat and poultry processing plants. Pecora Urexpam® NR-201 one-part, self-leveling polyurethane sealant does have such approval.

PACKAGING (unit includes Base and Activator)

- 1 1/2-gallon (5.7 L) units
 - 3-gallon (11.34 L) units
- Color Pack is packaged separately.

COLOR

- Available in pre-pigmented #39, Limestone. However, three other colors (see illustration) can be obtained by adding Pecora Universal Color Packs to the limestone Dynatrol® II-SG unit. One (1) color pack per 1 1/2-gallon unit; two (2) color packs per 3-gallon unit.

#39 Limestone (standard)



with #16 Brick Red Universal Color Pack



with #515 Aluminum Stone
Universal Color Pack



with #12 Black Universal Color Pack



4. TECHNICAL DATA

Applicable Standards: Meets Federal Specifications TT-S-00227E, Class A, Type I; SS-S-195B and SS-S-159B, and ASTM C-920-02, Class 25, Type M, Grade P, Use T₂.

Joint Design: The width or depth of the sealant 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" (12 mm) but not exceeding 2" (50 mm), the depth should be maintained at 1/2" (12 mm). Horizontal traffic bearing joints wider than 2" (50 mm) present unique problems and require more exacting sealant placement and firmer support.

TYPICAL PHYSICAL PROPERTIES

at 80°F, 27°C, 50% RH

Test Property	Value	Test Procedure
Adhesion to Concrete (pli)	25	ASTM C794
Elongation (%)	600	ASTM D412
Tensile Strength (psi)	150	ASTM D412
Hardness (Shore A) after heat aging	25-35*	ASTM C661
Maximum Movement Capability(%)	+/-25	ASTM C719
Polymeric Base	Polyurethane	Pecora Corporation
Pot Life (at 80°F) (hours)	4	Pecora Corporation
Tack Free to Touch (hours)	8	ASTM C679
Service Temperature Range (°F)	-40 to 180	Pecora Corporation
Full Cure (hours)	48	Pecora Corporation
VOC Content (g/L):		
Base (g/L)	25	ASTM D3960
Activator (g/L)	15	ASTM D3960

*ASTM C920, Section 8.4 hardness states that in applications of proper design, sealants with less than 25 hardness may be used in traffic-bearing areas if recommended for use by the manufacturer and accepted by the purchaser.

5. INSTALLATION

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

Priming: Joint surfaces MUST be primed before applying Dynatrol® II-SG. P-75 or P-150 non-staining primer should be used on masonry and P-100 primer is to be used on metal subject to applicable VOC regulations. Approximate drying times for primers at 80° F (27° C), are: P-75/P-150 - 1 hour; P-100 - 15 minutes.

Important Note: Primer must not be allowed to dry for more than 8 hours before the application of sealant. Should this happen, the P-100, P-75, or P-150 will have to be reapplied over the existing primer.

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. 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 a bond breaker tape is applied to prevent adhesion to this type of filler. Dynatrol® II-SG should not be installed over impregnated fiberboard, sand or porous fillers capable of absorbing and retaining water.

Application: The Base and Activator (nested in the Base container) are formulated and premeasured 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.

Approximate Application Life:

- 1 hour at 120° F (49° C)
- 2-4 hours at 80° F (27° C)
- 6-8 hours at 40° F (4° C)

Protection: Even after cure, Dynatrol® II-SG has a normal slight residual tack which will disappear as the sealant weathers. If this is objectionable, the sealant may be lightly dusted with talc or other powdery substance which will blow away as the tack disappears. The sealant should be protected from water as best possible during the curing cycle. Excess moisture soon after application can retard or halt the curing process and heavy rains can distort or destroy the sealant.

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-SG 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-SG performs equally well during any part of this shelf life.

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 Safety Data Sheet (SDS) for more information.

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

6. 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.

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. 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.

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 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

<http://www.4specs.com>

07 10 00 Waterproofing
07 92 00 Joint Sealants



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