

# Urexpan NR-201

Self-Leveling Hybrid, Traffic-Grade and Traffic Loop Sealant



## SPECIFICATION DATA SHEET

### BASIC USES

In small-to-medium width interior or exterior horizontal joints in plazas, malls, patios, swimming pool decks, meat and poultry plants, traffic loop sealants, copings, sidewalks, driveways, parking lots and garages.

### MANUFACTURER

#### Pecora Corporation

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Harleysville, PA 19438  
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800-523-6688  
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### PRODUCT DESCRIPTION

NR-201 is a one part self-leveling, moisture-curing, isocyanate free sealant based on a unique hybrid STPU (Silyl-Terminated Poly Urethane) differentiating it from the standard urethane-based sealant. The silicone/urethane hybrid chemistry utilized by the NR-201 formula allows for a low odor, non-yellowing, one-part, moisture-curing, STPU sealant. It has been developed specifically for sealing dynamic joints between materials of dissimilar porosity, coefficients of expansion and surface textures. It cures to a medium modulus rubber with extraordinary adhesion, capable of accommodating joint movement of +25% of the original joint width. It also has excellent UV resistance in that it does not yellow, crack or craze on long term exposure to UV light. It has excellent abrasion resistance withstanding the rigors of pedestrian and vehicular traffic.

### TECHNICAL DATA

**Applicable Standards:** Federal Specification TT-S-230C, Type I, Class A; and ASTM C-920, Type S, Grade P, Class 25, Use M, A & O, USDA acceptance for use in meat and poultry processing plants.

### Advantages:

- Low VOC
- No shrinkage
- Minimal dirt pick-up
- Low Odor
- Non-yellowing
- Exceptional adhesion
- Non-gassing
- Long life
- Fast Cure
- Paintable
- USDA Approved

### INSTALLATION

Joints should be designed for a maximum of +/- 25% movement at the narrowest dimension for sealant to perform properly. It is essential to remove all traces of moisture, powder, dirt, dust, grease, oil, and other foreign matter. Methods of removal may include sandblasting, wire brushing, air blasting, or saw cutting. If the joint contains asphalt-impregnated fiberboard, this must be cut back to allow for proper backer rod or barrier beneath the sealant. There must be no contact between the sealant and any amount of asphalt or tar in dynamic moving joints, or

### PACKAGING

- 30-oz. (887 ml) cartridges (10 per carton)
- 2-gallon (7.6 L) pails (special order)

### COLOR

- Standard: Aluminum Stone, Limestone
- Non-Standard: Black (Available in Minimum Batch Quantities)

adhesive failure may occur. NR-201 is acceptable for applications in static traffic loop saw cuts in both concrete or asphalt.

**Joint Backing:** A closed-cell polyethylene rod should be used as a backer for the NR-201. Use a size that will compress about 25% when inserted into the joint. In joints too shallow for backer rod, use a polyethylene bondbreaker tape to prevent three-sided adhesion of the sealant.

**Priming:** NR-201 adheres well without primer to fully-cured concrete and aluminum; however, P-75 Primer is recommended on masonry in exterior applications for greater long-term

TABLE 1: TYPICAL PHYSICAL PROPERTIES  
at 77°F (25°C), 50% R.H.

TEST PROPERTY	VALUE	TEST PROCEDURE
Rheological, must self-level @ 40°F (5°C)	Passes	ASTM C639
Extrusion rate (seconds @ 50 psi)	<20	ASTM C603
Hardness, Shore A (25-50)	30	ASTM C661
Heat aging (max. weight loss 10%)	7.8	ASTM C792
No cracking or chalking	Passes	Pecora Corporation
Tack-Free (max. 72 hours)	<24 hrs	ASTM C679
Stain & Color change	Passes	ASTM C510
(Will not stain white cement mortar. No color change)		
Cyclic movement (max loss 1½ in²)		
Aluminum	Passes	Class 25 ASTM C719
Concrete*	Passes	Class 25 ASTM C719
Adhesion-in-peel (5 lbs. min) (pli)		
Aluminum	23	ASTM C794
Concrete*	23	ASTM C794
Accelerated weathering (no cracking)	Passes	ASTM C793
VOC (g/L)	<50	ASTM D3960
VOC Emissions (TVOC)	<2 ug (0.002 mg)/cu m	CDPH v1.1-2010 (CA Specification 01350)

\*with P-75 Primer

adhesion and in interior applications where the sealant may be subject to standing water or complete immersion. Where surfaces such as brick, quarry tile, pavers, slate, or other decorative stones or other metals are to be sealed, contact Pecora Technical Services department (800-523-6688) for installation recommendations.

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" (12 mm) but not exceeding 1" (25 mm), the depth should be maintained at 1/2" (12 mm).

**Cure Time:** Sealant is designed to be tack-free within 72 hours at 77°F. (25°C), 50% relative humidity (R.H). Since NR-201 is a moisture-curing sealant, higher R.H. will accelerate curing while a lower R.H. will tend to retard the curing.

At normal temperature-humidity conditions, sealant will cure at approximately 1/8" (3 mm) per day.

**Cleaning:** Remove excess sealant promptly from hands and equipment using mineral spirits\*.

\*(Solvent mentioned is toxic and flammable; observe manufacturers precautions and refer to Material Safety Data Sheets).

**Storage Life:** 9 months from date of manufacture in original unopened bulk containers when stored below 80°F (27°C). 12 months from date of manufacture in original unopened cartridges when stored below 80°F (27°C).

**Precautions:** Contacts with uncured sealant or with vapors generated during curing MAY CAUSE RESPIRATORY TRACT IRRITATION. Avoid breathing vapor, mist, or dust. Keep container

closed when not in use. Use only with adequate ventilation or wear an appropriate NIOSH-approved respirator. MAY CAUSE SKIN AND EYE IRRITATION. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Ingestion may cause irritation of the intestinal tract. Refer to Material Safety Data Sheet (MSDS) for more information.

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

### 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](http://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 installed in 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.

### 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"

### 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  
- 32 13 73 - Concrete Paving  
Joint Sealants