

# Urexpan<sup>®</sup> NR-200

## Specification Data Sheet

Self-Leveling, Traffic-Grade Polyurethane Sealant



### 1. BASIC USES

• Urexpan<sup>®</sup> NR-200 is designed specifically for sealing traffic-bearing expansion joints in parking decks and ramps, driveways, highway, bridge approaches, stadiums and industrial flooring. It is equally effective in sealing horizontal joints in sidewalks, terraces, pedestrian plazas and malls, patios, swimming pool decks and copings.

### 2. MANUFACTURER

Pecora Corporation  
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### 3. PRODUCT DESCRIPTION

Urexpan<sup>®</sup> NR-200 is a two-part, chemically-curing, cold-applied, self-leveling elastomeric sealant, which is very abrasion resistant and highly extensible to withstand long-term abuse and dynamic movement.

**Recommended Options:** In control and construction joints in interior industrial flooring subjected to fork truck traffic, Pecora EP-800 two-part flexible epoxy 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 Dynatred<sup>®</sup> two-part, non-sag polyurethane sealant with a 40+ Shore A hardness is recommended. For heavy duty pedestrian traffic areas use Pecora Dynaflex two part, non-sag, polyurethane sealant with a Shore A hardness of 55. Dynatred<sup>®</sup>, Dynatrol II SG, or Dynaflex should also be used where joint slope exceeds 1%.

**Limitations:** Despite its abrasion resistance, Urexpan<sup>®</sup> NR-200 is susceptible to

damage from snow plows and studded tires. It should not be used in areas where it will come into more than casual contact with harsh chemicals such as acids, strong alkalis, ketones, etc. Contact Technical Services for additional recommendations and limitations. Urexpan<sup>®</sup> NR-200 does not have USDA approval for use in meat and poultry processing plants. Urexpan<sup>®</sup> NR-201 one-part, self-leveling polyurethane sealant does have such approval.

**Note:** Urexpan<sup>®</sup> NR-200 is not to be used as a structural component or in longitudinal expansion joints that are intended to be used as a constant traveling surface.

### PACKAGING

- 1-1/2 gallon (5.7 L)
- 3-gallon (11.34 L) units when mixed with the curing agent or activator

### COLOR

- Limestone, Aluminum Stone

### 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-920-98, Class 25, Type M, Grade P, Use T.

**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. Although Urexpan<sup>®</sup> NR-200 may be installed in such joints as wide as 10" (254 mm), it is highly recommended that you consult our Technical Services department before undertaking such design work.

### 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, lantance 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 Urexpan<sup>®</sup> NR-200. P-150, P-75 or P-200 primer should be used on

### TYPICAL PHYSICAL PROPERTIES at 80°F (27°C), 50% RH

Test Property	Value	Test Procedure
VOC Content: Activator (g/L)	0	ASTM D3960
Base (g/L)	0	ASTM D3960
Non-Volatile Content (%)	100	ASTM D1644
Pot Life (hours)	4	Pecora Corporation
Tack-Free to Touch (hours)	8	ASTM C679
Full Cure (hours)	48	Pecora Corporation
Adhesion to Concrete (pli)	25	ASTM C794
Hardness, Shore A, after heat aging	25-35*	ASTM C661
Elongation (%)	600	ASTM D412
Tensile Strength (psi)	150	ASTM D412
Maximum Movement Capability		ASTM C719
Extension (%)	25	
Compression (%)	25	
Service Temperature Range	-40 to 180°F (-40 to 82°C)	Pecora Corporation

\*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.

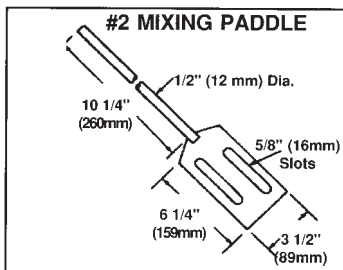
masonry and P-100 primer is for use on metal. Approximate drying times for primers at 80° F (27°C), are: P-150, P-75 and P-200: 1 hour; P-100: 15 minutes.

**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. 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 material. Urexpan® NR-200 should not be installed over impregnated fiberboard, sand or porous fillers capable of absorbing and retaining water.

**Mixing:** The Activator and Base components are packaged in exact ratio for use. Mix as supplied using a #2 mixing paddle. Do not attempt to mix partial units and risk the probability of a non-curing sealant with resulting extensive and costly remedial work.

Thoroughly blend the Activator and Base for a minimum of five minutes using a slow-speed, heavy duty drill at a maximum speed of 400 RPM. Avoid high speed mixing that will entrain air in the sealant causing bubbling and blistering.



**Application:** Joints should be filled to within 1/16" of the surface and light tooling should be done immediately to fill in any voids or eliminate any bubbles. Material remaining on the sides and bottom of the container should be scraped or poured into the next unit to be mixed, and not installed into the joints since it is likely that some of this material has not been blended sufficiently for a proper cure.

**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, Urexpan® NR-200 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 well as 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.

**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:** Product contains diisocyanates. Avoid prolonged breathing of vapors and contact with skin and eyes. Wash hands thoroughly after use and before eating or smoking. Upon accidental contact with eyes, flush thoroughly with water and seek medical attention at once. Refer to applicable Material Safety Data Sheets.

**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](http://www.pecora.com).

## 7. WARRANTY

Pecora Corporation warrants its products to be manufactured 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.

## 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

- Sweet's Catalog File: [www.sweets.com](http://www.sweets.com)
- General Building
  - 07100 Waterproofing
  - 07920 Sealants
- Civil Engineering
  - 07100 Waterproofing



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