

# Pecora 311 NS

## Specification Data Sheet

### Non-Sag Silicone Parking Deck Sealant



#### BASIC USES

Sealing of typical traffic-bearing concrete, metal and asphalt parking deck/ garage expansion and control joints.

#### 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

Pecora 311 NS Silicone Parking Deck Sealant is a one-part, ultra low modulus product designed for sealing joints in parking decks / garages. It has excellent adhesion to most concrete, metal and asphalt substrates, demonstrates superior weather resistance, and remains flexible at extremely low temperatures.

Pecora 311 NS Silicone Pavement Sealant is a non-sag product designed for applications on flat and sloped surfaces.

##### Advantages:

- Reduces pavement deterioration by preventing surface water penetration into underlying base and sub-base layers.
- Convenient one-component, neutral, moisture curing system.
- Ultra low modulus resulting in high movement capability.
- Ease of application with standard automated bulk dispensing equipment such as Graco or Pyles.
- VOC compliant.
- Primerless adhesion to most concrete, metal and asphalt.
- Aids in elimination of non-compressibles entering expansion joints.

##### Limitations:

Contact Technical Services when using Pecora sealants in combination with penetrating water repellants, curing

compounds or surface coatings.

Pecora 311 NS Silicone Pavement Sealant should not be used:

- for continuous water immersion conditions.
- when ambient temperature during application is below 40°F(4°C) or above 120°F(49°C).
- flush with traffic surface. **(Sealant must be recessed below surface.)**
- for applications requiring support of hydrostatic pressures.
- with solvents for dilution purposes.
- with concrete that is cured less than 7 days.

- with newly applied asphalt until cooled to ambient temperature (usually 24-48 hours).
- as a structural component or in longitudinal joints greater than 3/4" in width that are intended to be used as a constant traffic surface.

#### PACKAGING

- 30 fl. oz. (887ml) cartridges
- 4.5 gallon (17.0L) pails
- 50 gallon (188.9L) drums

#### COLOR

- Limestone

#### SEALANT COVERAGE CHART RECESS GUIDELINES

| Joint Width (inches) | Sealant Depth (inches) | Recess (inches) | Backer Rod Diameter (in) | Minimum Joint Depth (in) | Linear ft./gal |
|----------------------|------------------------|-----------------|--------------------------|--------------------------|----------------|
| 1/4                  | 1/4                    | 1/8             | 3/8                      | 3/4                      | 308            |
| 3/8                  | 1/4                    | 1/8             | 1/2                      | 7/8                      | 205            |
| 1/2                  | 1/4                    | 1/8             | 5/8                      | 1-1/4                    | 154            |
| 3/4                  | 3/8                    | 1/4             | 7/8                      | 1-1/4                    | 68             |
| 1.0                  | 1/2                    | 1/4             | 1-1/4                    | 2                        | 38             |

#### TABLE 1: TYPICAL UNCURED PROPERTIES

| Test Property          | Value   | Test Procedure |
|------------------------|---------|----------------|
| Extrusion Rate (mins)  | 90-250  | Mil-S-8802     |
| Rheological Properties | non-sag |                |
| Tack Free Time (mins)  | 60      | ASTM C679      |
| VOC Content (g/L)      | 50      | ASTM D3960     |

#### TABLE 2: TYPICAL CURED PROPERTIES (After 7 days cure at 77°F (25°C), 50% RH)

| Test Property                  | Value | Test Procedure     |
|--------------------------------|-------|--------------------|
| Cure Through (days)            | 7     | 0.5" cross section |
| Adhesion @ 600% Elong. (psi)   |       | ASTM D5329*        |
| Asphalt                        | 24    |                    |
| Concrete                       | 24    |                    |
| Metal                          | 24    |                    |
| Elongation (%)                 | >1400 | ASTM D412          |
| Resilience (%)                 | >95   | ASTM D5329         |
| Stress @ 150% Elongation (psi) | 22    | ASTM D412          |
| Hardness                       |       | ASTM C661          |
| 21 day cure (Shore 00)         | 85    | Pecora Corporation |
| Joint Movement Capability      |       |                    |
| +100/-50%; 10 cycles           | Pass  | ASTM C719          |

\*modified section 14

#### 4. TECHNICAL DATA

**Applicable Standards:** Complies with TT-S-00230C, TT-S-001543, ASTM C920, Class 100, Type S, Grade NS, Use T, M, O, ASTM D-5893-96

**Joint Design:** Sealant depth should be 1/4"-1/2" and joint width should be 1/4"-1". Ideally, the ratio of joint width to sealant depth should be 2:1, when appropriate. For joint widths greater than 1", consult Pecora Technical Services department.

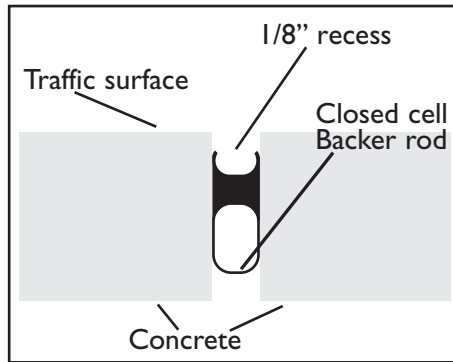


Figure 1

#### 5. INSTALLATION

**Surface Preparation:** New or old concrete surface must be dry and free of dust, laitance, grease, oils, curing compounds, water repellents, waxes, foreign particles, and disintegrated substrate. This is best achieved by sandblasting. Restoration work requires saw cutting and/or sandblasting, followed by blowing out with compressed air (moisture and oil-free). Joint area should be free of all dust and foreign debris before back-up material is installed. Pecora recommends adhesion testing with appropriate primers for proper performance and warranty requirements. Recommended primer for concrete is P-225.

**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. Semi-Rigid backing material such as EPS board is recommended for areas subjected to pedestrian traffic. For areas subjected to heavy pedestrian traffic use Pecora Dynatred® or Dynaflex™ traffic grade sealants.

**Application:** Ideal surface temperature should be 60°F - 85°F ( 16°C 0- 29°C) Sealant should be applied to the prepared joint in a continuous operation. Tool the sealant slightly concave using dry-tooling techniques. **Sealant must be recessed below the traffic surface.** (See Figure 1).

**Initial Skin:** Approximately 30 minutes at 77°F (25°C), 50% R.H. Higher temperatures and/or humidity will shorten this time period.

**Cleaning:** Immediately remove all excess sealant and smears adjacent to joints with mineral spirits. For equipment cleanup, also use mineral spirits. Consult manufacturer's MSDS for handling and safety precautions.

**Shelf Life:** Approximately one (1) year when stored in original, unopened container in a dry area at temperatures below 80°F (27°C).

**Precautions:** 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 Sheets (SDS) for more information.

**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.

#### 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. 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

Once sealant is in place and cured, it is basically maintenance free. If damage to sealant occurs, cut out the effected area, clean with vacuum or compressed air and recaulk.

#### 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 or 215-723-6051.

#### 10. FILING SYSTEMS

- <http://www.4specs.com>  
07 92 00 Sealants



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