

Rowan Resins 289 **Flexible Sealant**

Technical Data Sheet

Revised September 03

DESCRIPTION

Rowan Resins 289 (RR 289) is a high performance polysulfide-based flexible joint sealant. It is suitable for resistance to many chemicals, shrinkage, aging, thermal stress, and the effects of outdoor exposure.

BENEFITS

- * Retains flexibility even as concrete moves
- * Resistant to many chemicals and weathering
- * Contains no volatile solvents
- * Available in Pour and Trowel Grades

RECOMMENDED USES

RR 289 is intended for use in concrete expansion joints in warehouses and in outdoor slabs exposed to the elements. It is also used in process and storage areas exposed to mild acids, alkalies and petroleum products.

Typical applications include sealing joints in bridges, roadways, warehouse floors, dike walls and floors in secondary containment areas, concrete panels, etc. RR 289 has the unique ability to maintain its flexibility even in outdoor applications where other sealants may become rigid, disbond or lose their flexibility.

PHYSICAL PROPERTIES

| | |
|--------------------------------|--|
| Tensile Strength (ASTM D-638): | 200-225psi |
| Percent Elongation: | 500 – 550% |
| Share A Hardness: | 20 - 25 |
| Color: | Dark Gray |
| Pot Life @ 77° F.: | 2 hours |
| Viscosity @ 77° F: | Pour Grade - Heavy Liquid Trowel Grade - Medium Caulk |

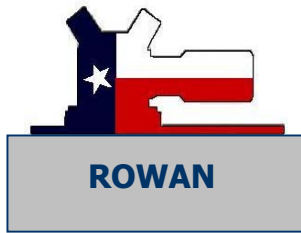
CHEMICAL RESISTANCE

The following information is to be used only as a guide in evaluating RR 289 for a particular application. It is always best to test the product in the specific chemical environment prior to use. The chemical resistance indicated below is based on seven-day laboratory immersion tests at 77°F. The ratings code is as follows:

Robt. L. Rowan & Assoc., Inc. · 3816 Dacoma · P.O. Box 920760 · Houston, Texas 77292-0760
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Visit our website at www.rrowan.com

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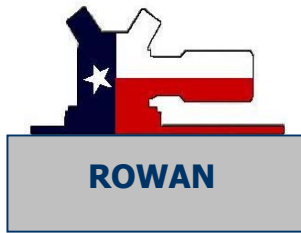
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E - Excellent (little or no effect)
 G - Good (minor or moderate effect)
 F - Fair (moderate effect)
 P - Poor (severe effect)

| Chemical Reagent | Rating | Chemical Reagent | Rating |
|------------------------|--------|----------------------|--------|
| Acetic Acid, 50% | G | Hydrogen Peroxide | - |
| Acetic Acid, Glacial | F | Jet Fuels | E |
| Acetone | G | Lactic Acid, 85% | - |
| Acrylonitrile | F | Methanol | E |
| Ammonium Hydroxide | E | Methylene Chloride | P |
| Ammonium Sulfate | E | MTBE | - |
| Aniline | - | Nitric Acid, 10% | P |
| Benzene | P | Nitric Acid, 70% | P |
| Carbon Tetrachloride | F | Perchloroethylene | - |
| Chlorobenzene | P | Phenol | - |
| Chromic Acid, 15% | P | Phosphoric Acid, 60% | E |
| Cyclohexane | E | Skydrol | G |
| Diesel Fuel | E | Sodium Hydroxide 50% | E |
| Ethyl Acetate | E | Sulfuric Acid, 20% | E |
| Formaldehyde | - | Sulfuric Acid, 98% | P |
| Formic Acid | - | Toluene | E |
| Gasoline, Regular | E | Trichloroethylene | P |
| Gasoline, Unleaded | E | Urea, 10% | E |
| Hydrochloric Acid, 37% | F | Water | E |
| Hydrofluoric Acid, 48% | G | Xylene | F |
| Hydrofluoric Acid, 75% | - | | |

COVERAGE

| | | |
|---------------|--|------------|
| Packaging: | 1.5 gallon unit consisting of base and activator | |
| Pour Grade: | Component A Resin: | 17.90 lbs. |
| | Component B Hardener: | 1.97 lbs. |
| Trowel Grade: | Component A Resin: | 18.00 lbs. |
| | Component B Hardener: | 1.48 lbs. |



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| <u>Recommended Joint Thickness</u> | <u>Coverage per Gallon</u> |
|------------------------------------|----------------------------|
| ½" wide x ¼" deep | 154 lin. ft. |
| ½" wide x ⅜" deep | 102 lin. ft. |
| ¾" wide x ⅜" deep | 68 lin. ft. |
| ¾" wide x ½" deep | 51 lin. ft. |
| 1" wide x ½" deep | 38 lin. ft. |
| 1" wide x ¾" deep | 25 lin. ft. |

INSTALLATION PROCEDURES

1. Prepare concrete surface by sandblasting or other mechanical means until a slight texture is evident. Blow out all excess dust and contaminants from joint. Surface should be free of glistening water and oils or chemicals.
2. For best results, brush Rowan Resins 396 Primer onto the joint walls. Apply sealant into joint while primer is slightly tacky to the touch.
3. Tape all sloping joints. Apply a backer rod or other type of bond breaker into the joint. Ideally the joint depth should be one half the joint width.
4. Pour Component A Resin and Component B Hardener into a separate mixing pail. Mix well with a mechanical jiffy-type mixer.
5. Pour into joint using a pour can with a spout suited for the joint size. For best results, apply at the days coolest temperature when joints are at their widest point.
6. For applications on vertical or sloped surfaces, trowel mixture from the can or empty mixture into a caulking gun to fill joints in a single application.
7. Clean tools and equipment with Epoxy Grout Cleaning Solvent #2.

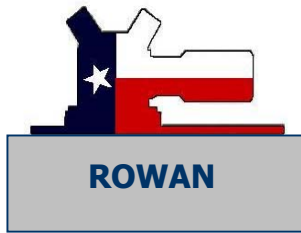
PRECAUTIONS

1. Do not thin with solvents.
2. Do not alter mixing proportions.
3. Apply only between temperatures of 45 and 95°F. Do not apply to hot metal (160°F. and above).
4. All components should be stored in a dry place at temperatures between 65 and 80°F.

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5. Always wear protective clothing, gloves and goggles during use. Do not use in an unventilated area. Please refer to the Material Safety Data Sheet for detailed safety precautions.

WARRANTY

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