

# RESCON<sup>®</sup> INJECTION RESIN

LOW VISCOSITY EPOXY INJECTION RESIN

## PURPOSE

RESCON INJECTION RESIN is designed for pressure injection of crack repair in concrete and masonry. It may also be used to seal interior and exterior above grade slabs.

RESCON INJECTION RESIN provides:

1. Deep penetration of cracks.
2. High chemical resistance
3. Excellent adhesive bond.
4. Conformance to ASTM-C-881 specifications.
5. V.O.C. Compliant
6. Moisture tolerant

## DESCRIPTION

RESCON INJECTION RESIN is a two component, 100% solids, high modulus, moisture tolerant, epoxy resin that meets the requirements of ASTM-C-881 specifications.

## PACKAGING

RESCON INJECTION RESIN is packaged in 3 gallon (11.36L), 1.5 gallon (5.68L) and 15 ounce (0.44L) cartridge units.

## STANDARDS

RESCON INJECTION RESIN meets or exceeds the ASTM-C-881 specifications for Type I, II, IV and V, Grade 1, Class B and C.

## SPECIFICATIONS

Color (mixed)	Amber
Cure Time	at 73°F (23°C) Gel Time is 30 minutes
Final Cure	7 days
Gel Times	60gm mass - 28 minutes at 73°F (23°C)
Mix Ratio	2:1 Part A to Part B by volume
Viscosity	518 cps

## PROPERTIES

**Compressive Strength** (ASTM-D-695)  
12,385 psi (85.4 MPa) at 7 days

**Compressive Modulus** (ASTM-D-695)  
267,586 psi (1845 MPa)

**Bond Strength** (ASTM-C-882)  
2,380 psi (16.4 MPa) at 2 days  
4233 psi (29.2 MPa) at 14 days

**Shrinkage** (ASTM-D-2566)  
Passes

**Tensile Strength** (ASTM-D-638)  
7,168 psi (49.4 MPa)

**Water Absorption** (ASTM-D-570)  
0.84%

## APPLICATION

**Storage:** Store product in a dry place between 40°-90°F (5°-32°C). To prevent contamination, containers should be tightly closed and properly stored. Prevent accumulation of water, dirt or other residue on covers or cartons.

**Preparation:** Cracks and surrounding surfaces must be clean and structurally sound. Remove all oil, grease, dirt, laitance or other contaminants. Abrasive cleaning and routing methods are recommended. Use clean, oil-free compressed air to remove dust or debris.

**Mixing:** Air, material, and surface temperatures must be a minimum of 40°F (4°C) prior to mixing or installation. Premix each component separately, then mix Part A with Part B for three minutes with a low-speed drill motor using a Jiffy (or equivalent) mixer or paddle. Mix only as much as can be used within the pot life. For easy dispensing and no mixing, use pre-filled cartridges or metering equipment.

For dispensing epoxy with cartridges, first cut the static mixer tip to the preferred opening size. Remove the plugs from cartridge, attach the static mixer with nut and tighten securely. Load cartridge into gun and dispense material until uniform in color to prepare for application. Cartridges are suitable for small repair projects having cracks  $\frac{1}{16}$ - $\frac{1}{4}$ " (1.6-6.4 mm) in width.

**Injecting:** Ports should be spaced 8"-36" (20.3 cm - 91.4 cm) apart, depending on the crack width and overall thickness. The ports and crack should be sealed across the surface to a width of approximately 3" (7.6 cm). After the surface has hardened, use epoxy cartridges or dispensing equipment to slowly fill injection ports. Fill and cap each port before injecting the next adjacent port. A core sample is recommended at the start of the project to verify penetration of material throughout the crack interface.

**Sealing:** Concrete surfaces (above grade only) can be sealed with epoxy injection resin. Spread material uniformly and allow adequate penetration. Immediately remove excess material to prevent a surface film from developing. Actual coverage will vary, depending on the concrete surface texture.

Unusual conditions or applications may require the technical assistance of a Symons representative.

## LIMITATIONS

Always test a small amount of RESCON INJECTION RESIN before installation to verify mixing and setting.

Do not thin with any solvents. Surface, ambient air, and material temperatures must be 40°F (4°C) or above. Do not expose uncured product to cold or freezing temperatures below 35°F (1°C) for any length of time.

Higher temperatures will decrease and cooler temperatures will increase the setting time. In general, the gel time may be cut in half for each 10-15°F increase above 75°F (24°C).

### **CLEAN-UP**

Clean tools and equipment with xylene before the epoxy sets up.

### **SHELF LIFE**

Shelf life of properly stored containers is two years.

### **PRECAUTIONS**

It is mandatory to take the following precautions to protect workers and the public:

1. KEEP OUT OF THE REACH OF CHILDREN.
2. Product is a strong sensitizer. Protective clothing is recommended.
3. Avoid breathing product vapors. Ensure adequate ventilation.
4. Avoid contact with skin. Contact areas should be thoroughly washed with soap and water.
5. Avoid contact with eyes. Flush eyes with water if contact occurs.
6. Avoid ingestion of material. If ingestion occurs, contact a poison center or physician.

Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

### **WARRANTY**

Symons warrants, for 12 months from the date of manufacture, or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Symons, the product is free of manufacturing defects and conforms to Symons' published specifications in force on the date of acceptance by Symons of the order. Symons shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Symons instructions in this technical data sheet.

The purchaser must examine the product when received and promptly notify Symons in writing of any nonconformity before the product is used, or no later than 30 days after such nonconformity is first discovered. If Symons, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the nonconforming product, refund the purchase price or issue a credit. This is the sole and exclusive remedy for breach of this warranty.

Only a Symons officer is authorized to modify this warranty. The sales information on the Symons website and received by the customer during the sales process does not supersede this warranty and the specifications of the product in force on the date of sale. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

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