

Rowan Resins 350 **Epoxy Bonding Agent**

Technical Data Sheet

Revised September 03

DESCRIPTIONS

Rowan Resins 350 (RR 350) is a high strength epoxy adhesive used to bond materials together in construction and repair applications. Because of its versatility, it can be used for a wide range of construction jobs including bonding new concrete to existing concrete, grouting vertical anchor bolts and coating rebar.

BENEFITS

- * Contains no solvents or carcinogenic substances
- * Insensitive to moisture in concrete
- * Easy-to-use 1:1 mixing ratio
- * Available in Short Working Time (SWT) or Long Working Time (LWT) Grades
- * Conforms to ASTM C-881

RECOMMENDED USES

RR 350 is used primarily for bonding new concrete to existing concrete structures or slabs. It is also used to grout anchor bolts, dowels and reinforcing bars into vertical holes. RR 350 has proven to be an excellent coating for steel rebar already in place.

Each component is color coded to ensure adequate mixing. The two separate grades of working time allow it to be used in small pours where a fast set is desirable and in larger pours where there is considerable waiting time between applications.

RR 350 bonds tenaciously to concrete. Because its bond strength exceeds the tensile strength of concrete, the bond line becomes the strongest part of the slab.

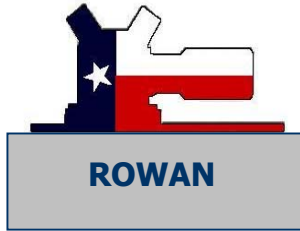
PHYSICAL PROPERTIES

Bond Strength (ASTM C-882):	2,100psi
Pot Life @ 77°F:	SWT Grade: 25 minutes LWT Grade: 70 minutes
Viscosity:	Heavy weight motor oil
Color:	Component A: White Component B: Black Mixed: Gray

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COVERAGE

Packaging:	½ gallon, 2 gallon units
Yield:	One gallon will cover approximately 75 sq. ft. of rough concrete or 100 sq. ft. of smooth concrete. When used as an anchor bolt grout, one gallon will fill 231 cu. in.

Bolt hole volume is computed as follows:

1. Obtain Hole Volume by multiplying hole size by depth. Example: ¾" diameter hole
(Hole area = πr^2 $\pi(d \div 2)^2$) x 4" depth = 1.7672 cu. in.
 $\pi = 3.14$
d= diameter of hole
2. Determine Rebar Volume by multiplying hole size by depth. Example: 1/2" diameter rebar (.1964) x 3" depth + .5892 cu. in.
3. Obtain Net Hole Volume by subtracting rebar volume from hole volume. Example: 1.7672 minus .5892 = 1.178 cu. in.
4. Determine amount of grout required by multiplying Net Hole Volume by number of holes.
Example: 1.178 x 400 holes = 471.2 cu. in. divided by 231 cu. inches/gallon = 2.04 gallons required.

INSTALLATION PROCEDURES

1. Prepare concrete surface by sandblasting or other mechanical means until a slight texture is evident and laitance is removed. Blow off all excess dust and contaminants. Surface should be free of glistening water and oils or chemicals.
2. Pour Component A Resin and Component B Hardener into a clean mixing container. Stir well using a mechanical jiffy-type mixer operated at low speed. Mix thoroughly until a consistent gray color has been attained.
3. For bonding applications, roll, brush or spray mixed material onto surface. Do not allow material to puddle in low spots.

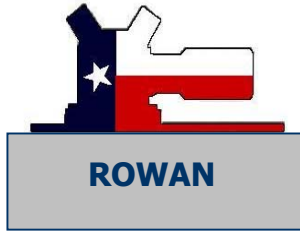
NOTE: SWT Grade is used when bonding of materials can be readily accomplished within a short period of time. Use SWT Grade for anchor bolt grouting. LWT Grade is used on larger pours when bonding times are longer due to delays such as the scheduling of ready-mix trucks.

4. Apply concrete to surface after the material has become tacky to the touch. The bonding agent is ineffective if allowed to completely harden before pouring concrete.

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5. For doweling applications, pour mixed material into vertical hole. Insert bolt or dowel by rotating into the filled hole. If the annulus exceeds 1/4 inch, add 1-1/2 parts by volume of clean, dry grade silica sand or until a stiff, yet pourable, mixture is attained.
6. Clean tools and equipment with Epoxy Grout Cleaning Solvent #2.

PRECAUTIONS

1. Do not thin with solvents unless advised by a Robt. L. Rowan & Assoc. Inc. technical representative.
2. Do not apply SWT Grade in temperatures less than 45°F. or greater than 100°F. Do not apply LWT Grade in temperatures less than 65°F. or greater than 110°F. Material cures slower at cooler temperatures, and working time will be substantially reduced at hotter temperatures.
3. Do not apply to wet or glistening concrete.
4. Both components should be stored in a dry place at temperatures between 65 and 80° F.
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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