

W. R. MEADOWS.

SEATIGHT.

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REZI-WELD_{TM} 1000 STATE

Multi-Purpose Construction Epoxy

DESCRIPTION

REZI-WELD 1000 STATE is a medium viscosity, two-component, construction-grade structural epoxy adhesive. It is moisture-insensitive and resistant to many chemicals. High modulus, high-strength REZI-WELD 1000 STATE is color coded to assure proper mixing. It is self-leveling and easy to apply.

As a neat mix, REZI-WELD 1000 STATE is used to bond hardened concrete to fresh or hardened concrete. It can also be used to bond metals and other materials to hardened concrete. REZI-WELD 1000 STATE is also used to secure metal anchors, bolts, rebars and dowels in concrete.

Mixed with sand or aggregates, REZI-WELD 1000 STATE may be used to patch spalls or defects in concrete. A thin film coating sprinkled with sand or grit becomes a durable non-skid interior topping.

SPECIFICATIONS

- ASTM C 881 Types I, II, IV & V, Grade 2, Classes B & C
- AASHTO M 235 Types I, II, IV & V, Grade 2, Classes B & C
- Various Departments of Transportation Approvals

PACKAGING

- 8.3 fl. oz. (250 mL) universal cartridge
- 20 fl. oz. (600 mL) side-by-side cartridge
- 2 Gallon (7.57 Liter) Units
- 10 Gallon (37.85 Liter) Units

STORAGE: 65° F-95° F(18° C-35° C) **COVERAGE:** 1 gallon neat covers approximately 80 sq. ft.

ADDITIONAL RESTORATION PRODUCTS FROM W. R. MEADOWS CAN BE FOUND BY VISITING OUR WEBSITE: www.wrmeadows.com

FOR INDUSTRIAL AND PROFESSIONAL USE ONLY

APPLICATION

Surface Preparation...Mechanically abrade all surfaces to be bonded. All surfaces to be bonded must be free of standing water and completely clean of dirt, rust, curing compounds, grease, oil, paint and unsound materials, which would prevent a solid bond. Vacuum or blow dust away with oil-free compressed air. Smooth surfaces require sanding or other mechanical abrasion. Exposed steel should be sandblasted and vacuumed clean; if not possible, degrease the surface and use sandpaper or a wire brush to reveal continuous, bright metal.

(For *cartridge* mixing and application instructions, see instruction sheet included inside the cartridge packaging unit.)

Mixing (Bulk units)...Condition all components to 60° F-85° F for 24 hours prior to use. Use the double-boiler method or store material in a warm room, prior to application. Pre-mix each component. Mechanically mix at slow speed (600-900 rpm) using a drill and Jiffy® Blade or drum mixer for 3 minutes or until completely mixed while scraping the sides to ensure complete blending of components. The mixed product should be uniform gray in color and not show streaks. Avoid air entrapment. Mix only very small quantities by hand for a minimum of 3 minutes or until sufficiently blended together using the supplied stirring stick. Scrape the sides of the container to ensure complete blending of components. Mix only the amount of epoxy that can be applied within the product's potlife. Potlife will decrease as the ambient temperature and/or mass size increases.

BONDING FRESH CONCRETE TO HARDENED CONCRETE OR HARDENED CONCRETE TO HARDENED CONCRETE . . .

Use a stiff masonry brush or airless spray equipment to apply a layer of mixed epoxy to concrete surfaces. Application rate should be 85-100 square feet per gallon. Place fresh or hardened concrete to mixed REZI-WELD 1000 STATE prior to epoxy adhesive becoming tack-free. If REZI-WELD

CONTINUED ON REVERSE SIDE...

1000 STATE becomes tack-free prior to application of fresh or hardened concrete, consult a W. R. MEADOWS representative. NOTE: Cured concrete is defined as concrete that has achieved a minimum 80 percent of designed compressive strength.

OTHER BONDING... To bond metal to concrete, apply a layer of the adhesive at 85-100 square feet per gallon (20 mils) to prepared surfaces and join immediately. Clamping pressure beyond what will hold parts in place is not necessary.

AGGREGATES FOR EPOXY-RESIN MORTARS . . .

Combine clean, dry aggregates to freshly mixed epoxy in a ratio of one part epoxy to one to four parts of graded aggregates by volume. Mix only long enough to obtain good wetting. A rotary drum mixer with a stationary paddle is recommended for blending aggregates and epoxy. Apply a thin coating of aggregate-free epoxy to the prepared surface as a primer. Patch thickness should not exceed 2" (50.8 mm) per lift.

METAL ANCHORS IN CONCRETE . . . Preformed holes should be approximately 1/4" larger in diameter than the bolt diameter. Depth of the hole should be 10-15 times the bolt diameter. Consult engineer for job specification requirements. Fill the hole from the bottom up, about halfway, with mixed epoxy and place the bolt, dowel or rebar. Top off with more epoxy and finish. All anchoring and doweling configurations must be approved or designed by an engineer.

INTERIOR NON-SKID TOPPING...Apply mixed epoxy at a rate not to exceed 80 sq. ft. per gallon. Spread sand thinly over wet epoxy and embed the grains with mohair roller. For heavy coverage, apply layer of sand or grit over the epoxy and allow it to set. Blow away excess sand. NOTE: REZI-WELD 1000 STATE IS NOT TO BE USED AS A FLOOR COVERING OR PROTECTIVE TREATMENT.

CLEAN-UP... Clean tools and equipment immediately with Toluene or Xylene. Clean equipment away from all ignition sources and avoid breathing vapors or allowing epoxy-containing solvent to contact skin. Should this material come in contact with the skin, wash thoroughly with soap and water, <u>not</u> solvent.

TECHNICAL DATA*

Property 7 Day Cure @ 77°F (25°C)	Typical Data	Test Method
Gel Time (Pot Life), mins.	7-10	ASTM C 881
Viscosity, cps	2,500	ASTM C 881
Tensile Strength, psi	7,100 (48.9 MPa)	ASTM D 638
Elongation, %	3.0	ASTM D 638
Hardness, Shore D	85	ASTM D 2240
Flexural Strength, psi	8,500 (58.6 MPa)	ASTM D 790
Compressive Yield Strength, psi	10,000 psi (68.9 MPa)	ASTM D 695
Compressive Modulus, psi	345,000 (2,379 MPa)	ASTM D 695
Bond Strength, psi (2 days)	2,500 (17.2 MPa)	ASTM C 882
Bond Strength, psi (14 days)	2,800 (19.3 MPa)	ASTM C 882
Heat Deflection Temperature	125°F (50°C)	ASTM D 648
Absorption, % (24 hours)	0.61%	ASTM D 570
Linear Coefficient of Shrinkage	0.0016	ASTM D 2566

Color: Part A...White Pot life: 5-7 minutes Part B...Black Cure time: 7 days at 77° F

Mix ratio: 1:1 by volume **Shelf life:** 1 year in unopened container *All technical data is typical information, but may vary due to testing methods, conditions and operators.

PRECAUTIONS

DO NOT DILUTE. Mix complete units only. Not recommended for use when the concrete temperature has been below 40° F (4° C) for the past 24 hours. Do not seal cracks under hydrostatic pressure. Do not warm epoxy over direct heat. REZI-WELD 1000 STATE is not to be used as an exterior coating. In bonding applications, cured epoxy will require mechanical scarification prior to adhering subsequent toppings.

HEALTH HAZARDS

Wear gloves at all times. Unused epoxy will generate excessive heat, especially in large quantities. Unused epoxy should be mixed with dry sand in the container to help lower the heat. Refer to Material Safety Data Sheet for complete health and safety information.

TO VERIFY MOST RECENT TECHNICAL DATA SHEET IS BEING USED, VISIT OUR WEBSITE: www.wrmeadows.com



LIMITED WARRANTY

"W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order." Read complete warranty. Copy furnished upon request.

Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this

information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

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