

REZI-WELD™ GEL PASTE

Trowel-Grade Construction Epoxy

DESCRIPTION

SEALTIGHT REZI-WELD GEL PASTE is a two-component, rapid setting epoxy compound designed for general concrete repair work. It is an easy-to-mix, easy-to-apply paste ideal for filling cracks, anchoring dowels, making small patches and general repairs in horizontal, vertical and overhead concrete surfaces. GEL PASTE is also suitable for surface sealing prior to pressure injecting. When used as an adhesive, SEALTIGHT REZI-WELD GEL PASTE fills all voids between the surfaces to be bonded.

SEALTIGHT REZI-WELD GEL PASTE is a moisture insensitive, high-modulus, high-strength, trowel-grade epoxy. It is color coded to help assure proper mixing and VOC compliant.

FEATURES AND BENEFITS

- Patches and repairs vertical or overhead concrete surfaces
- Fills all the gaps between the surfaces to be bonded...unlike liquid epoxy adhesives which might run out and reduce the bond area
- Easy-to-mix and apply with its trowel-grade consistency
- Offers high-viscosity, high modulus and high-strength characteristics
- VOC compliant
- Color-coded, innovative, unitized packaging assures proper mixing of two-components
- Excellent bond strength suitable for cap sealing

SPECIFICATIONS

- ASTM C 881, Type I, II, IV & V, Grade 3, Classes B & C
- AASHTO M 235, Type I, II, IV & V, Grade 3, Classes B & C
- USDA Accepted

PACKAGING

1 Quart (.95 Liter) Unit
1 Gallon (3.79 Liter) Unit
2 Gallon (7.58 Liter) Unit
10 Gallon (37.85 Liter) Unit

PHYSICAL PROPERTIES

Color: Part A...White
Part B...Black
Mix ratio: 1:1 by volume
Pot life: 45 minutes at 77°F
Cure time: 7 days at 77°F
Shelf life: 2 years in unopened container
Storage: 40-95 °F (4-35°C)
Coverage: 1 gal. neat yields 231 cubic inches

APPLICATION

FOR INDUSTRIAL AND PROFESSIONAL USE ONLY

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 surfaces should be sandblasted and vacuumed clean; if not possible, degrease the surface and use sandpaper or a wire brush to reveal continuous, bright metal.

Mixing...Condition all components to 60-85° F for 24 hours prior to use. Pre-mix each component. Mechanically mix at slow speed (600-900rpm) 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 sides of the container to ensure complete blending of the 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.

CONTINUED ON REVERSE SIDE

METAL ANCHORS IN PREFORMED HOLES IN CONCRETE...Preformed holes should be approx. 1/4" (6.35mm) larger in diameter than the anchor bolt diameter. The depth of the hole should be 10-15 times the bolt diameter. Fill the hole from the bottom up, about half way with mixed epoxy and place the bolt, dowel or rebar. Top off with more epoxy and finish. Doweling configurations must be approved or designed by an engineer.

CRACKS IN VERTICAL OR OVERHEAD STRUCTURES...For non-moving cracks and joints, use a trowel to apply the paste full depth and strike off flush at the surface in a single pass. For structural crack injection repairs, use a dual-component gel pump.

PATCHES IN CONCRETE STRUCTURES...GEL PASTE makes a high-strength material for patching, topping, grouting and repairing spalls and other defects in concrete. Average thickness of the patch or topping should be no greater than 1/4 to 1/2 (6.35 to 12.7mm) per lift.

OTHER BONDING...To bond cured concrete or metal to concrete, apply a layer no less than a 1/64" (.40mm) to the prepared surface and join immediately. No firm clamping pressure is necessary beyond what will hold parts in place. When bonding fresh concrete to cured concrete, apply GEL PASTE at approximately 85-100 sq.ft/gal. (2.1-2.4 sq.m/L). NOTE: Cured concrete surfaces to be bonded should be at least 28 days old.

SURFACE SEALING...Apply mixed epoxy over entire length of crack to be pressure injected. Ensure complete encapsulation to avoid leaking. Adjacent concrete surfaces must be mechanically abraded to ensure a proper bond. Allow for suitable cure time prior to injecting.

TECHNICAL DATA

The following physical properties were determined at a 1:1 mix ratio of A: B by Volume cured at 77°F (25°C) & 50% RH

Test Method	Actual	Required per ASTM C 881-99, TYPE IV
Gel Time Per ASTM C 881-99	45 minutes	Minimum 30 minutes
Viscosity Per ASTM C 881-99 Mixed	1/2" Bead-No Sag	Maximum 1/4" Bead-No Sag
Compressive Strength Per ASTM D 695-96 @ 1 day @ 7 days	9,000 psi (62 MPa) 11,500 psi (79 MPa)	Not Required Minimum 10,000 psi (70 MPa)
Compressive Modulus Per ASTM D 695-9 @ 7 Days	400,000 psi (2758 MPa)	Minimum 200,000 psi (1,400 MPa)
Slant Shear Bond Strength Per ASTM C 882', Moist Cured @ 2 days (Old to Old Concrete) @ 14 days (Old to Old Concrete) @ 14 days (New to Old Concrete)	1,500 psi (10 MPa) 2,000 psi (14 MPa) 2,500 psi (17 MPa)	Minimum 1,000 psi (7.0 MPa) Minimum 1,500 psi (10.0 MPa) Minimum 1,500 psi (10.0 MPa)
Tensile Elongation Per ASTM D 638-98' @ 7 days	1.5%	Minimum 1%
Heat Deflection Temperature Per ASTM D 648-98' @ 7 days	125° F (53°C)	Minimum 120° F (50°C)
Linear Coefficient of Shrinkage Per ASTM D 2566' @ 7 days	0.003	Maximum 0.005
Water Absorption Per ASTM D 570-98' @ 7 Days	0.51% w/w	Maximum 1.0% w/w

All Technical Data is typical information, but may vary due to testing methods, conditions and operators. Independent Reports Are Available Upon Request.

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, not solvent.

LIMITATIONS/PRECAUTIONS

Not recommended for use when the concrete temperature has been below 40°F for the past 24 hours. Do not thin with solvents or use to seal cracks under hydrostatic pressure. Do not warm epoxy over direct heat...use the double-boiler method or store material in warm room, prior to application. Unused epoxy will generate excessive heat, especially in large quantities. Unused epoxy should be mixed with dry sand in the container to help lower heat

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LIMITED WARRANTY

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