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SEPTEMBER 2024

(Supersedes December 2023)

REZI-WELD™ GEL PASTE STATE

Construction Epoxy

DESCRIPTION

REZI-WELD GEL PASTE STATE is a high viscosity, high modulus, rapid-setting, thixotropic, structural, epoxy-based, chemical anchoring/bonding adhesive and injection gel. REZI-WELD GEL PASTE STATE provides high mechanical properties and bond strength to concrete and various other substrates. REZI-WELD GEL PASTE STATE is a two-component, moisture insensitive construction epoxy that can be troweled, brushed, injected, or pumped.

USES

REZI-WELD GEL PASTE STATE is an easy-to-mix, easy-to-apply paste ideal for filling cracks, anchoring, doweling, and making small patches and general repairs in horizontal, vertical, and overhead concrete surfaces. It is also suitable for surface sealing prior to pressure injection. When used as an adhesive, REZI-WELD GEL PASTE STATE fills all voids between surfaces to be bonded.

PACKAGING

10 Gal. (37.85 L) Units
8.6 Oz. (254 mL) Universal Cartridge, 12/case
21.2 Oz. (627 mL) Unitized Cartridge, 12/case

COVERAGE

21.2 fl. oz. (627 mL) cartridge yields 38.25 in.³ (626 cm³)
8.6 fl. oz. (254 mL) cartridge yields 15.52 in.³ (254 cm³)
10 gal. (37.85 L) unit yields 2,310 in.³ (0.037 m³)

SHELF LIFE

Two years from date of manufacture when stored indoors on pallets in a dry, cool area. Do not store product outside.

SPECIFICATIONS/STANDARDS

- ASTM C881-20 Type I, II, IV, & V, Grade 3, Classes A, B & C
- AASHTO M235 Type I, II, IV & V, Grade 3, Classes A, B & C

TECHNICAL DATA [Tests conducted at 75° F (23.9°C)]

The following physical properties were determined at a 1:1 mix ratio of A:B by volume, cured at 75° F (24° C) & 50% RH

TEST METHOD	RESULTS
Consistency (Per ASTM C881)	Non-Sag
Mix Ratio	1:1 by Volume
Gel Time (Pot Life/Working Time) per ASTM C881 (60 gms)	14 - 20 Minutes
Cure Time (Minimum Full-Cure Time)	24 Hours @ 75° F (23.9° C)
Slant Shear Bond Strength (Per ASTM C882) @ 2 Days @ 14 Days	3,470 psi (23.9 MPa) 3,670 psi (25.3 MPa)
Absorption (Per ASTM D570)	0.20%
Heat Deflection Temperature (Per ASTM D648)	132° F (75° C)
Linear Coefficient of Shrinkage (Per ASTM D2566)	0.0001
Tensile Strength (Per ASTM D638 @ 7 Days)	3,080 psi (26.2 MPa)
Tensile Elongation (Per ASTM D638)	0.9%
Compressive Yield Strength (Per ASTM D695)@ 7 Days	11,708 psi (80.7 MPa)
Compressive Modulus (Per ASTM D 695) @ 7 Days	244,000 psi (1682.7 MPa)
VOC Content	7 g/L

All technical data is typical information and will vary due to testing methods, condition procedures, batching, and raw material variances.

Color: Part A ... White
Part B ... Gray
Mixed ... Gray

APPLICATION

Surface Preparation ... Mechanically roughen or abrasive blast concrete substrate. Remove all unsound concrete and provide a profiled surface. Substrate must be structurally sound, dust-free, and free of grease, oil, dirt, curing compounds, release agents, or any other surface or penetrated contaminants, coatings, sealers, or similar that will adversely affect bond. Sanding, acid etching, cup-grinding, or wire-abrading are not approved concrete surface preparation methods. Vacuum or blow away dust with oil-free compressed air.

Smooth surfaces, such as wood, 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.

CONTINUED ON REVERSE SIDE ...

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Mixing (Bulk Units) ... Condition all components to above 65° F (18.3° C) for 24 hours prior to use. Use the double-boiler method or store material in a warm room for 24 hours 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 three 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 three minutes or until sufficiently blended together using the supplied stirring stick. Scrape the 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 pot life. Pot life will decrease as the ambient temperature and/or mass size increases.

Metal Anchors in Concrete ... Preformed holes should be approximately 1/8" (3.175 mm) 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. All anchoring and doweling configurations must be approved and/or designed by an engineer. REZI-WELD GEL PASTE STATE is not recommended for overhead applications for loading-bearing anchorages. W. R. MEADOWS recommends consideration of metal anchor usage for overhead load-bearing anchorages.

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 ... REZI-WELD GEL PASTE STATE 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 12.7 mm) per lift, not to exceed a total depth of 1 1/2" (38 mm).

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

Bonding Fresh Concrete to Hardened Concrete or Hardened Concrete to Hardened Concrete ...

Use a stiff masonry brush to apply a layer of mixed epoxy to concrete surfaces. Application rate should be 85 - 100 ft.²/gal. (7.89 - 9.29 m²). Place fresh or hardened concrete to mixed REZI-WELD GEL PASTE STATE prior to epoxy becoming tack-free. If REZI-WELD GEL PASTE STATE becomes tack-free prior to application of fresh or hardened concrete, consult a W. R. MEADOWS representative.

Other Bonding ... To bond metal to concrete, apply a layer of the adhesive [at 85-100 sq. ft./gal. (7.89 - 9.29 m²) (20 mils)] to the prepared surface and join immediately. Clamping pressure, beyond what will hold parts in place, is not necessary.

Cleanup ... Clean tools and equipment using a mild citrus-based solvent. Cured product may be mechanically removed.

PRECAUTIONS

Failure to follow all industry standard practices, such as the American Concrete Institute (ACI), will compromise the performance of REZI-WELD GEL PASTE STATE. Not intended for submerged or saturated conditions. High ambient (air), product, and substrate temperatures will decrease working time. Overhead applications must be approved and/or designed by a professional engineer to ensure durability and long term bonding/anchoring. Creep and service temperature must be considered in structural applications. Cold ambient (air), product, and/or substrate temperature will increase working, cure, and bolt-up time. This data sheet does not supersede engineering or architectural recommendations or drawings. A professional engineer must determine suitability of REZI-WELD GEL PASTE STATE for anchoring, doweling, or similar applications. This is not a standalone engineering document. **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 or when rain is imminent. Do not seal cracks under hydrostatic pressure. Do not warm epoxy over direct heat.

HEALTH AND SAFETY

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. 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. Refer to Safety Data Sheet for complete health and safety information.

For most recent data sheet, sustainability information, and SDS, visit 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

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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.