



DATA SHEET NO. 3700-642

REZI-WELD™ GEL PASTE

Gel Consistency-Thixotropic, Multi-Purpose Construction Epoxy

DESCRIPTION

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

USES

REZI-WELD GEL PASTE 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 fills all voids between surfaces to be bonded.

FEATURES/BENEFITS

- Patches and repairs vertical or overhead concrete surfaces.
- Fills all gaps between 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.
- Colour-coded, innovative, unitized packaging assures proper mixing of two components.
- Excellent bond strength suitable for cap sealing.

PACKAGING

0.95 Litre (1 U.S. Quart) Units
3.79 Litre (1 U.S. Gallon) Units
7.58 Litre (2 U.S. Gallon) Units
37.85 Litre (10 U.S. Gallon) Units

COVERAGE

3.79 L (1 U.S. gal.) neat yields 3785 cm³ (231 cubic inches).

SHELF LIFE

One year when stored in unopened containers in dry conditions. Store between 4.4° - 35° C. Do not store product outside.

SPECIFICATIONS

- AASHTO M235, Type I, II, IV & V, Grade 3, Class B & C
- ASTM C881, Type I, II, IV & V, Grade 3, Class B & C
- Canadian Food Inspection Agency (CFIA) accepted
- Approved by the Ministry of Transportation, Quebec

TECHNICAL DATA

The following physical properties were determined at a 1:1 mix ratio of A:B by volume, cured at 25° C and 50% RH.

Test Method	Actual	Required per ASTM C881, TYPE IV
Gel Time Per ASTM C881	45 minutes	Minimum 30 minutes
Viscosity Per ASTM C881 Mixed	1/2" Bead-No Sag	Minimum 6.4 mm Bead-No Sag
Compressive Strength Per ASTM D695 @ 1 day @ 7 days	62 MPa 11,500 psi	Not Required Minimum 70 MPa
Compressive Modulus Per ASTM D695 @ 7 Days	2758 MPa	Minimum 1,400 MPa
Slant Shear Bond Strength Per ASTM C882, Moist Cured @ 2 days (Old to Old Concrete) @ 14 days (Old to Old Concrete) @ 14 days (New to Old Concrete)	10 MPa 14 MPa 17 MPa	Minimum 7.0 MPa Minimum 10.0 MPa Minimum 10.0 MPa
Tensile Elongation Per ASTM D638 @ 7 days	1.5%	Minimum 1%
Heat Deflection Temperature Per ASTM D648 @ 7 days	53° C	Minimum 50° C
Linear Coefficient of Shrinkage Per ASTM D2566 @ 7 days	0.003	Maximum 0.005
Water Absorption Per ASTM D570 @ 7 Days	0.51% w/w	Maximum 1.0% w/w

Colour: Part A ...White Pot Life: 45 minutes @ 25° C
Part B ... Black Cure time: 7 days @ 25° C
Mix Ratio: 1:1 by volume

All technical data is typical information, but may vary due to testing methods, conditions, and operators.

Continued over ...

W. R. MEADOWS® OF CANADA

70 Hannant Court, Milton, ON L9T 5C1
38 Rayborn Crescent, St. Albert, AB T8N 4B1
(800) 342-5976
Montreal Sales: (877) 405-5186

Hampshire, IL / Cartersville, GA / York, PA / Fort Worth, TX
Benicia, CA / Pomona, CA / Goodyear, AZ / Milton, ON
St. Albert, AB
www.wrmeadows.com

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.

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 until uniform gray in colour. 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 Prefomed Holes in Concrete ... Prefomed holes should be approximately 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.

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. REZI-WELD GEL PASTE is not recommended for overhead anchoring applications.

Patches in Concrete Structures ... REZI-WELD 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 6.35 - 12.7 mm per lift, not to exceed a total depth of 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 2.08 – 2.45 m²/L. Place fresh or hardened concrete to mixed REZI-WELD GEL PASTE prior to epoxy becoming tack-free. If REZI-WELD GEL PASTE 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 2.1 - 2.4 m²/L (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 immediately with toluene or xylene. Clean equipment away from all ignition sources.

PRECAUTIONS

Failure to follow all industry standard practices, such as the American Concrete Institute (ACI), will compromise the performance of REZI-WELD GEL PASTE. Not intended for submerged or continuously saturated conditions. High ambient (air), product, and substrate temperatures will decrease working time. Overhead anchoring 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 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 ambient and substrate temperature is below 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 vapours 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.

MASTERFORMAT NUMBER AND TITLE

03 01 00 - Concrete
03 63 00 - Epoxy Grouting

LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 4.1: Low-Emitting Materials – Adhesives and Sealants
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

For most recent data sheet, further LEED information, and SDS, visit www.wrmeadows.com.

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