PRODUCT DATA

W. R. MEADOWS SEALTIGHT

NO. 393

CSI Code: 03930

JULY 2004
(Supersedes July 2003)

REZI-WELD™ (IP)

Low-Viscosity, Epoxy Injection Pre-Pak

DESCRIPTION

REZI-WELD (IP) Injection Pre-Pak is an amber-colored, two-component, low-viscosity, rapid setting, penetrating epoxy compound. REZI-WELD (IP) is easy-to-use and offers high-modulus and high-strength characteristics. It effectively bonds cured concrete or metal to concrete. REZI-WELD (IP) is resistant to most chemicals and moisture insensitive.

USES

REZI-WELD (IP) Injection Pre-Pak is designed to be either gravity fed or pressure injected into concrete cracks for restoration of bridges, buildings, highways or any concrete construction requiring repair.

FEATURES AND BENEFITS

- Seals small cracks in concrete surfaces inside or outside
- Bonds cured concrete or metal to concrete
- Sets anchor bolts in concrete
- Fast, easy-to-mix and apply, pre-packed, two-component, user-friendly packaging with barrier-type cartridge
- Improves resistance to industrial chemicals and is moisture insensitive

SPECIFICATIONS

- ASTM C 881, Type I & II, Grade 1, Class B & C
- AASHTO M 235 Type I & II, Grade 1, Class B & C
- USDA Accepted
- Approved by the Ministry of Transportation, Quebec

PACKAGING

10 oz. (295.74 mL) Cartridge

Convenient, easy-to-use REZI-WELD (IP) Injection Pre-Pak is pre-packed in two-component, barrier type cartridges. Each cartridge contains 10 oz (295.74 mL) of low-viscosity epoxy when properly mixed. Once mixed, cartridge may be inserted into a standard caulking gun for application.

TECHNICAL DATA*

Property	Typical Data	Test Method
7 Day Cure @ 77ºF (25ºC)		
Tensile Strength, psi	6,000 (41.4 MPa)	ASTM D 638
Elongation, %	1.6	ASTM D 638
Hardness, Shore D	85	ASTM D 2240
Flexural Strength, psi	7,000 (48.2 MPa)	ASTM D 790
Flexural Modulus, psi	480,000 (3,310 MPa)	ASTM D 790
Compressive Yield Strength, psi	11,000 (75.8 MPa)	ASTM D 695
Compressive Modulus, psi	240,000 (31,655 MPa)	ASTM D 695
Bond Strength, psi (2 days)	2,500 (17.25 MPa)	ASTM C 882
Bond Strength, psi (14 days)	3,200 (22.08 MPa)	ASTM C 882
Absorption, % (24 hours)	0.15%	ASTM D 570
Linear Coefficient of Shrinkage	0.005	ASTM D 2566
Bolt Pull Out, max. Lbs. (kg)	10,000 (4,536 kg) concrete failure	ASTM C 900

Component Properties	Resin	Hardener
Mix Ratio (PBV=Part by Vol.)	2.27 PBV	1 PBV
Appearance	Clear	Amber
Wt./gal., lbs./gal. (Kg/L)	12.6 (1.51 kg/L)	8.2 (.98 kg/L)

Viscosity: cps 1,000 (mixed)
Final Color: Light amber (mixed)
Pot Life [10-oz. cartridge @ 77ºF (25ºC)]: 20 min
* All technical data is typical information, but may vary due to test methods, conditions and operators.

CONTINUED ON REVERSE SIDE...

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SHELF LIFE
One (1) year in unopened, damage-free cartridges stored in a dry environment between 40ºF - 95ºF (4ºC - 35ºC).

Application Tool

Caulking Gun

APPLICATION
CAUTION: WEAR GLOVES AND SAFETY GLASSES OR OTHER EYE PROTECTION DURING ALL OPERATIONS. Consult and follow all mixing and application directions included with unit.

Surface Preparation…Mechanically abrade all surfaces to be bonded. Substrates must be dust free, clean and void of all contaminants, and should be dry for optimal adhesion. All steel surfaces must be abraded to a white metal finish. Prior to injecting, all cracks must be cleaned either by blowing out with oil-free compressed air or vacuumed to remove all contaminants and loose particles.

Mixing… Note: Cartridge must be between 60ºF-85ºF (16ºC-29ºC) at time of mixing. Use the double-boiler method or store material in a warm room, prior to application.

INJECTION: Epoxy can be gravity fed into horizontal cracks that are small, 1/4" (6.35mm) maximum width, and have a limited depth. Inject epoxy from caulking gun into the crack and fill to the top. Allow gravity to pull epoxy into the void. Top off with more epoxy and finish. Repeat as necessary.

REZI-WELD (IP) is not to be used for sealing cracks while under hydrostatic pressure. NOTE: For larger injection projects, a self-proportioning, mixing and pressure injection piece of equipment is mandatory, and a low-viscosity epoxy adhesive with an extended pot life, such as REZI-WELD™ LV Low Viscosity Injection Epoxy from W. R. MEADOWS may be used. (See Data Sheet No. 392).

OTHER BONDING: To bond cured concrete or metal to concrete, apply sufficient amount to the properly prepared surface and join together immediately. No firm clamping pressure is necessary beyond what will hold the parts in place. NOTE: All concrete surfaces to be bonded should be at least 28 days old, due to continued shrinkage of new concrete for 28 days.

Clean up…Tools and equipment should be cleaned immediately with Xylene or Toluene. Clean equipment away from heat, sparks and open flame 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.

PRECAUTIONS
DO NOT DILUTE. The cartridge must be between 60º - 85ºF (16º - 29ºC) at the time of mixing. Never warm epoxy over direct heat. Not recommended for use when the concrete temperature has been below 40ºF (4ºC) for the past 24 hours. REZI-WELD (IP) is not to be used on exterior surfaces as a coating, as it is not resistant to ultraviolet rays.

HEALTH AND SAFETY
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

ADDITIONAL RESTORATION PRODUCTS FROM W. R. MEADOWS CAN ALSO BE FOUND BY VISITING OUR WEBSITE.

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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