Technical Data Sheet

PRIME REZ 1100™ HIGH MOD LV

High-strength epoxy injection resin

DESCRIPTION

Prime Rez 1100 is a low viscosity, high strength, high modulus epoxy resin designed to be injected or gravity fed into cracks in concrete, masonry or stone for structural repair. This 100% solids, two-component resin may also be used as a general purpose epoxy adhesive. Conforms to ASTM C-881 type I and II, grade 1, class B and C.

TYPICAL AREAS OF USE

- Concrete walls and floors
- Concrete tanks
- Dams
- Parking decks
- Bridges
- Retaining walls
- Foundation walls, etc.

ADVANTAGES

- High compressive, bond, tensile and flexural strengths
- Low viscosity
- Good chemical resistance
- Excellent tolerance for wet conditions
- Can be injected under water

STORAGE

Store in dry environment between 40º and 80ºF (4-27°C). Do not allow product to freeze.
Shelf Life: 12 months from date of manufacture in unopened containers properly stored. Protect from moisture.

ACCESSORY PRODUCTS

Prime Gel 2000, Prime Gel 2100, Prime Gel 2500 for surface seal, injection ports

PACKAGING

- 1-1/2 gallon
- 3 gallon units
- 15 gallon units
- 2:1 Quick Mix cartridges - case of 10

MIX RATIO

A:B = 2:1 by volume

Manual Mixing:
Pre-mix each component prior to combining. Only mix the amount of material that can be used within the pot life. Thoroughly mix materials using a low speed drill with a mixing paddle. Scrape the sides and bottom of the pail while mixing. Note: Larger batches exotherm and set up faster than small batches.

Pump Application: This product is ideally suited for use with a two-component injection pump or Quick Mix cartridge system.

MATERIAL PREPARATION

Store material overnight to precondition to between 70º to 80ºF (21 and 27°C) prior to use.

LIMITATIONS

Cold temperatures will slow down reaction time and increase viscosity. Do not use below 32ºF (0°C) as ice crystals in the concrete will inhibit bond. Material that is off ratio or not mixed thoroughly will not cure to full strength and may remain tacky indefinitely.

Typical Data: Physical properties at 73ºF (23ºC) - Liquid

Properties will vary depending upon site conditions, application method, mixing method and equipment, material temperature, and curing conditions.

Solids content: 100% solids, no VOCs

Viscosity: 140-160 centipoise **Color:** Amber (clear)

Note: Viscosity scale for Prime Resins products: 50 and under= super low, 51-100= very low, 101-400= low, and 401-1000= moderate viscosity.

Pot Life	100 Grams	1 Gallon	20 Mils
90ºF (32ºC)	15 min	8 min	1 hr 45 min
73ºF (23ºC)	29 min	22 min	8-12 hrs
50ºF (10ºC)	1 hr 20 min	41 min	12-15 hrs

Test Data		
Compressive strength	ASTM D-695	8,540
Compressive modulus of elasticity	ASTM D-695	188,000
Tensile strength	ASTM D-638	5,110
Tensile modulus of elasticity	ASTM D-638	239,000
Tensile elongation	ASTM D-638	6.4%
Bond strength (dry cure) -2 day	ASTM C-882	2,627
Bond strength (dry cure) -14 day	ASTM C-882	3,250
Shore hardness	D scale	85 D
Water absorption	ASTM D-570	1.1%

Coverage: 231 cubic inches (3785 cubic centimeters) per gallon

CLEANUP

Clean off of skin with soap and water immediately.

FIRST AID

Eye Contact: Immediately flush with large amounts of water. Seek medical attention.
Inhalation: Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention.
Ingestion: Seek medical attention immediately.
Skin Contact: Wipe off contaminated area and wash with soap and water.

SHIPPING INFORMATION

Shipping Class: Motor Freight Class 60
Hazard Classification: D.O.T. 8

SAFETY

"B" component contains amines and may cause severe burns upon skin contact for any length of time. Use OSHA-approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/procedures if applicable. Avoid skin contact; do not ingest. See SDS for complete safety precautions. For professional use only.

ENVIRONMENTAL PROTECTION

Cured material is inert and environmentally safe. Dispose of in approved landfill. Clean up any spilled liquid material and dispose of according to local, state and federal guidelines.

MANUFACTURING INFORMATION

This product is manufactured by Prime Resins, Inc. under strict quality assurance practices at our Conyers, GA plant.

WARRANTY & DISCLAIMER

Prime Resins, Inc. warrants its products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins, Inc. are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins, Inc. will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.

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