

# Technical Datasheet

## Prime Rez 1600 Injection Gel



Flowable gel epoxy injection resin

### Description

Prime Rez 1600 is a smooth flowing epoxy injection resin for structural repair, designed to be injected into wide cracks in concrete, masonry or stone where the back of the crack cannot be sealed prior to injection. Prime Rez 1600 will flow while under pressure, then will stop and not flow out the back of the crack. This is a twocomponent, 100% solids, thixotropic epoxy injection resin that is USDA approved. Conforms to ASTM C-881 type I and II, grade 3, class B and C.

### Primary Applications

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

### Advantages

- Easily flows into cracks from 1/8" to 1" wide
- Higher compressive, tensile, and bond strengths than concrete
- Moisture insensitive

### Packaging

- 1:1 Quick Mix cartridges - case of 10

**Technical information:** Physical properties at 73°F (23°C) - 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

**Consistency:** smooth, flowable gel

**Color:** Amber (clear)

Pot Life	100 Grams	1 Gallon	20 Mils
90°F (32°C)	15 min	11 min	2 hr 10 min
73°F (23°C)	30 min	23 min	8 - 12 hrs
50°F (10°C)	1 hr 15 min	1 hr	12 - 15 hrs

Test results		
Compressive strength	8,100	ASTM D-695
Compressive modulus of elasticity	330,000	ASTM D-695
Tensile strength	4,900	ASTM D-638
Tensile modulus of elasticity	267,000	ASTM D-638
Tensile elongation	1.8%	ASTM D-638
Bond strength (dry cure) - 2 day	2,337	ASTM C-882
Bond strength (dry cure) - 14 day	2,510	ASTM C-882
Shore hardness	85 D	D scale
Water absorption	1.2%	ASTM D-570
Coverage	231 cubic inches/gallon	



## Accessory Products

- Manual or pneumatic gun

## Directions For Use

*Mixing Ratio:* A:B 1:1 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:* Pre-condition material to between 70 and 80°F (21 - 27°C).

*Limitations:* Cold temperatures will slow down reaction time and increase viscosity. Do not use below 32°F (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.

## Storage & Clean Up

*Storage:* Store in dry environment between 40 and 80°F (4 and 27°C). Do not allow to freeze. Shelf Life: 1 year from date of manufacture in unopened containers properly stored. Protect from moisture.

*Clean Up:* Clean off skin with soap and water immediately.

## Environmental Protection

Cured material is environmentally safe. Dispose of in according to appropriate regulations. Clean up any spilled catalyzed liquid material and dispose of according to local, state and federal regulations.

## Shipping

Shipping Class: Motor Freight Class 60

Hazard Classification: DOT 8

## Health & Safety

*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 .

## 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 immediately.

## Manufacturing

Products are manufactured by Prime Resins, Inc. in the U.S.A. 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.