



## PRIME REZ 1400 VOID FILLER

### DESCRIPTION:

PRIME REZ 1400 VOID FILLER is a two component, 100% solids, low exotherm epoxy resin designed to be injected into wide cracks and voids in concrete.

### USES:

Injection of cracks and voids in concrete, masonry, and wood  
Injection using "pre-placed" aggregate technique  
Grouting deep dowel bars, bolts, pins, etc.

### ADVANTAGES:

Low Exotherm  
Medium Viscosity  
High Strengths  
Moisture Insensitive  
Excellent Bond Strengths  
Good Chemical Resistance

### CONFORMS TO:

ASTM C-881  
Type II  
Grade 2  
Class B & C

### PACKAGING:

1.5 Gallon Units  
3 Gallon Units  
15 Gallon Units

**PHYSICAL PROPERTIES AT 73° F (23° C)**

MIX RATIO A:B	2:1 By Volume	
VISCOSITY	1600-1800 c.p.s.	
COLOR	GRAY	
POT LIFE	100 gram mass	1 gallon mass
90° F (32° C)	2 hrs 30 min	46 min
73° F (23° C)	6 hrs 10 min	1 hr 47 min
50° F (10° C)	10 hrs	3 hrs
COVERAGE	231 cubic inches per gallon	

**TEST DATA (STRENGTHS REPORTED IN P.S.I.)**

COMPRESSIVE STRENGTH	ASTM D-695	8,900
COMPRESSIVE MOE	ASTM D-638	$2.17 \times 10^5$
TENSILE STRENGTH	ASTM D-638	3,700
TENSILE MOE	ASTM D-638	$5.7 \times 10^4$
BOND STRENGTH	ASTM C-882	2,273 (2 day) 3,230 (14 day)
ELONGATION	ASTM D-638	10%
SHORE HARDNESS	D SCALE	85

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## APPLICATION TECHNIQUES:

**MATERIAL CONDITIONING:** Pre-condition materials to 65° - 85° F (19° - 30° C) before using.

**SURFACE PREPARATION:** Surface must be clean and free of any dust, oil, grease, laitance, curing compounds, or any other contaminants. This should be achieved by sandblasting, waterblasting, or other mechanical means.

**MIXING CONSIDERATIONS:** Pre-mix each component. Measure exactly 2 parts "A" to 1 part "B" by volume into a clean pail. Only mix the amount of material that can be used within the pot life. Mix epoxy for three minutes using a low speed drill with a mixing paddle (never mix by hand). Scrape the sides and bottom of the pail while mixing.

NOTE: Large batches of epoxy will set up much faster than small batches.

## INSTALLING MATERIAL:

**PRESSURE INJECTION** - Due to the long pot life of Prime Rez 1400, injection can be done using a single component pump. Set porting system that is appropriate for injection equipment. Use Prime Gel 2000 or 2100 to surface seal the cracks. Always start at one end of the crack and work your way to the other end. Allow air to vent out of sequential injection ports. Cracks should remain pressurized after injection is completed.

NOTE: It is beneficial to flush cracks out with water to remove dust and contaminants before injecting epoxy. The water should be blown out by injecting oil free air into the injection ports.

**PRE-PLACED AGGREGATE METHOD** - For repairing spalls and honeycombs in concrete. Form the area to be repaired leaving enough room at the top of the form so that aggregate can be placed into the void. Use only clean, dry aggregate that is of suitable size for the repair. Once the aggregate has been placed, form up the rest of the void. Insert a small tube in the top of the form to allow the pressure to vent out during injection. Seal around the forms with any of the Prime Gel series materials (Prime Gel 2500 is the fastest setting). Drill a hole directly into the bottom of form or at a 45° angle in the concrete that penetrates the void from the bottom. Set ports as needed. Inject the Prime Rez 1400 until the void is full.

**GROUTING BOLTS AND ANCHOR BARS** - For horizontal applications only. Clean all dust out of the hole and grout with neat Prime Rez 1400.



- LIMITATIONS:** Do not use solvents to thin.  
Minimum application temperature is 40° F (5° C).  
Minimum age of concrete must be 21-28 days.  
Material may exotherm under high volume, high heat situations.
- STORAGE:** Store in a dry environment at a temperature between 40° to 90° F (4° to 32° C).  
Ideal temperature range is 65° to 75° F (18° to 24° C). Temperatures below 60° F (16° C) will cause epoxy to thicken making it difficult to properly blend the components. Under proper conditions, the shelf life is twelve (12) months in unopened, damage-free containers. **PROTECT FROM MOISTURE. DO NOT ALLOW PRODUCT TO FREEZE.**
- WARNINGS:** "A" material may cause skin irritation. Contains epoxy resins.  
"B" material may cause severe burns on skin. Contains amines.
- FIRST AID:** **Skin Contact** - Wipe off contaminated area and wash with soap and water.  
**Eye Contact** - Immediately flush eyes with large amounts of water for 10 minutes. Get medical attention.  
**Inhalation** - Move to fresh air if symptoms occur. If breathing is difficult, get medical attention.  
**Ingestion** - If conscious give two glasses of milk or water. Get medical attention.  
**See MSDS for more information.**
- CLEAN UP:** Clean equipment with MEK or Xylene immediately after use. Clean skin with soap and water. Wash contaminated clothing before re-use.
- WARRANTY:** Prime Resins warrants its products to be free from manufacturing defect and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins 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 the 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.

If you have any questions or comments about any of Prime Resins products or application techniques you may contact us directly at 800-321-7212, Monday through Friday 8:00 AM to 5:00 PM Eastern Time.

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***"Innovations in Infrastructure Repair Technology"***

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