



## PRIME GEL 2000 HIGH MOD

### DESCRIPTION:

PRIME GEL 2000 HIGH MOD is a two component, 100% solids, high strength, structural epoxy gel adhesive.

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### APPLICATIONS:

Surface seal of cracks in concrete, masonry, and wood prior to injection  
Patching vertical and overhead concrete, masonry, and wood surfaces  
Grouting deep dowel bars, bolts, pins, etc.  
Bonding similar and dissimilar materials such as concrete, metal, wood, etc.

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### ADVANTAGES:

Easy to work with smooth gel consistency  
Super High Strengths  
Moisture Insensitive  
Excellent Bond Strengths  
Good Chemical Resistance  
USDA Approved

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### CONFORMS TO:

ASTM C-881  
Types I, II, IV, and V  
Grade 3  
Class B & C

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### PACKAGING:

3/4 Gallon Units  
3 Gallon Units  
15 Gallon Units  
16.5 Ounce "Quick Mix" Cartridges

**PHYSICAL PROPERTIES AT 77° F (25° C)**

MIX RATIO A:B	2:1 By Volume		
VISCOSITY	Non-sag Gel		
COLOR	Concrete Gray		
POT LIFE	60 gram	1/2 gallon	Tack Free (1/8")
90° F (32° C)	18 min	15 min	45 min
73° F (23° C)	32 min	24 min	1 hr, 45 min
50° F (10° C)	1 hr, 30 min	60 min	7 hrs
COVERAGE	(Neat) (1:1 with Prime Blend Sand) (Smooth Surfaces) (Rough Surfaces)	231 cubic inches per gallon 370 cubic inches per gallon 1/8" thick = 12 square feet per gallon 1/8" thick = 6 square feet per gallon	

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

COMPRESSIVE STRENGTH	ASTM D-695	9,500
COMPRESSIVE MOE	ASTM D-638	2.75 x 10 <sup>5</sup>
TENSILE STRENGTH	ASTM D-638	3,750
TENSILE MOE	ASTM D-638	3.17 x 10 <sup>5</sup>
BOND STRENGTH	ASTM C-882	3,430 (2 day) 3,580 (14 day)
ELONGATION	ASTM D-638	1.5%
SHORE HARDNESS	D SCALE	85
HEAT DEFLECTION	ASTM D-648	124°F

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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:

**SURFACE SEALING CRACKS** - Apply a 2"-3" band of epoxy 1/8" thick over the crack. Wait until the material has sufficiently cured before beginning injection. It is best to wait overnight if possible.

**PATCHING OVERHEAD AND VERTICAL SURFACES** - Using a trowel or putty knife, apply material to area being patched. One to one and a half parts oven dried sand (Prime Blend Sand) may be added to the mixed epoxy to extend it and bring the coefficient of thermal expansion closer to that of concrete. Apply in 1-1/2" lifts.

**GROUTING BOLTS AND ANCHOR BARS** - Hole size should be no more than 1/8" larger than bar or bolt. Clean all dust out of the hole and grout with neat Prime Gel 2000.

**BONDING** - Applying material to the surface or surfaces to be bonded. A glue line of 1/8" or less is desirable.



- LIMITATIONS:** Do not use solvents to thin.  
Minimum application temperature is 40° F (5° C).  
Minimum age of concrete must be 21-28 days.  
Use only oven dried aggregate to make mortar.  
Maximum thickness is 1-1/2" per lift.  
Forms a vapor barrier after cure.
- 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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