



PRIME BOND 3900 HIGH MOD LPL

DESCRIPTION:

PRIME BOND 3900 LPL is a two component, 100% solids, long pot life, general purpose epoxy binder/bonding agent.

USES:

Bonding new "plastic" concrete to old concrete or steel in hot weather.
Binder for epoxy mortar used to patch or overlay horizontal surfaces.
Grouting dowel bars, bolts, pins, etc

ADVANTAGES:

No V.O.C.'s
Long Pot Life
Super High Strengths
Moisture Insensitive
Medium Viscosity
Good Chemical Resistance

CONFORMS TO:

ASTM C-881
Type I, II, IV, and V
Grade 1
Class B & C

PACKAGING:

3 Gallon Units
15 Gallon Units

PHYSICAL PROPERTIES AT 77° F (25° C)

MIX RATIO A:B	2:1 By Volume		
VISCOSITY	600 c.p.s.		
COLOR	Amber		
POT LIFE	60 gram	1/2 gallon	Tack Free (20 mils)
73° F (23° C)	2 hrs	56 min	6 hrs
COVERAGE	(Neat 20 mils)	231 cubic inches per gallon	
	(With 5 parts Prime Blend Sand)	80 square feet per gallon	
		0.53 cubic feet per gallon	

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

COMPRESSIVE STRENGTH	ASTM D-695	10,530
COMPRESSIVE MOE	ASTM D-695	338,000
TENSILE STRENGTH	ASTM D-638	7,220
TENSILE MOE	ASTM D-638	332,000
BOND STRENGTH	ASTM C-882	2,547 (2 day) 2,833 (14 day)
ELONGATION	ASTM D-638	3%
SHORE HARDNESS	D SCALE	85
WATER ABSORPTION	ASTM D-570	0.9%

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. Use a 3/4 horsepower drill for mixing epoxy mortar.

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

INSTALLING MATERIAL:

BONDING NEW CONCRETE TO OLD CONCRETE - Apply neat material to surface by brush, roller, or spray. Pour new concrete while epoxy is still tacky. If Prime Bond 3900 loses its tackiness before concrete is poured, re-coat with fresh material.

EPOXY MORTAR - Prime the prepared surface with neat Prime Bond 3900. Add up to five parts oven dried aggregate (Prime Blend Sand). Place the mortar before the primer becomes tack free. Compact and finish the mortar with a trowel. Keep trowel clean using M.E.K. or Xylene.

GROUTING HORIZONTAL BARS - For horizontal applications only. Hole size should be no more than 1/8" larger than bar or bolt. Clean all dust out of hole and grout with neat Prime Bond 3900.

- LIMITATIONS:** Do not use solvents to thin.
Do not alter mix ratio.
Minimum application temperature is 60° F (15° C).
Minimum age of concrete must be 21-28 days.
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 Standard Time.

TDS-3900-04/05



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