



Prime Bond 3100 Medium Mod

DESCRIPTION:

PRIME BOND 3100 MEDIUM MOD is a two component, 100% solids, general purpose epoxy bonding agent.

USES:

Binder for epoxy mortar used to patch or overlay horizontal surfaces
Bonding new "plastic concrete" to old concrete or steel
Grouting dowel bars, bolts, pins, etc...
Bonding river gravel to concrete
General purpose coating

ADVANTAGES:

No V.O.C's
Good Flexibility
Moisture Insensitive
Excellent Bond Strengths
Medium Viscosity
Good Chemical Resistance
USDA Approved

CONFORMS TO:

ASTM C-881
Type I, II, IV, and V
Grade 2
Class B & C

PACKAGING:

¾ Gallon Units
3 Gallon Units
15 Gallon Units

PHYSICAL PROPERTIES AT 77° F (25° C)

MIX RATIO A:B	2:1 By Volume
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VISCOSITY	2,500 cps
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COLOR	Amber (Clear)
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POT LIFE	100 gram	1 gallon	Tack Free 20 mils
90° F (32° C)	12 min	11 min	2 hrs
73° F (23° C)	24 min	19 min	3 hrs
50° F (10° C)	33 min	26 min	4 hrs

COVERAGE	231 cubic inches per gallon
(Neat 10 mils)	160 square feet per gallon
(With 5 parts Prime Blend Sand)	0.53 cubic feet per gallon

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

COMPRESSIVE STRENGTH	ASTM D-695	9,300
COMPRESSIVE MOE	ASTM D-695	2.24 x 10 ⁵

TENSILE STRENGTH	ASTM D-638	5,900
TENSILE MOE	ASTM D-638	5.68 x 10 ⁴

BOND STRENGTH	2 DAY	ASTM C-882	2,140
	14 DAY	DRY	3,400

ELONGATION	ASTM D-638	12%
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SHORE HARDNESS	D SCALE	82
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WATER ABSORPTION	ASTM D-570	< 1%
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APPLICATION TECHNIQUES:

MATERIAL CONDITIONING: Pre condition materials 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 some 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 $\frac{3}{4}$ 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 3100 loses its tackiness before concrete is poured, re-coat with fresh material.

EPOXY MORTAR: Prime the prepared surface with neat Prime Bond 3100. 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 BOLTS AND ANCHOR 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 3100.

COATING: Material may be applied by brush or roller. Material should be applied at a rate of 160 square feet per gallon. Two coats are recommended. Apply second coat within 36 hours. Prime Bond 3100 may be thinned using Xylene at a maximum rate of one pint per gallon of mixed epoxy.

FLOORING: Pour mixed material onto concrete and pull out to desired millage using a notched squeegee and backroll.

Using a spiked roller to remove any entrapped air from the coating. Wear shoes with spikes to avoid slipping or damaging the system.

Apply the second coat after first coat is tack free but within 36 hours. If first coat cures longer than 36 hours, the surface must be roughed up by light brush blasting or sand paper.

Use only high quality roller covers. Use 3/8" mohair nap (candy stripe) with phenolic core.

LIMITATIONS: Do not use solvents to thin (except when used as a coating).
Minimum application temperature is 40° F (4° C).
Minimum age of concrete must be 28 days.
Do not alter mix ratio.
Forms a vapor barrier after cure.

STORAGE: We recommend storage in a dry environment at temperatures between 40° to 90° F (4° to 32° C). Ideally, storage temperature should be at 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.
Printable MSDS sheets are available on our website, www.primeresins.com.

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 defects 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 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 7:00 A.M. to 5:00 P.M. Eastern Time.

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“Innovations in Infrastructure Repair Technology”

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