

EPOBOND™

Moisture-Insensitive, 100% Solids,
High-Mod Epoxy Adhesive

MANUFACTURER

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PRODUCT DESCRIPTION

EPOBOND is a 100% solids, high-modulus epoxy adhesive used to bond fresh concrete to hardened concrete; steel to fresh or hardened concrete; as a grout for anchor bolts, dowels and rebar; as a binder for epoxy concrete, and for bonding other dissimilar materials.

EPOBOND is a two component epoxy compound formulated for the purpose of bonding concrete to concrete or masonry. Its chemically controlled modulus of elasticity allows flexibility of movement compatible with concrete. The bond strength is such that separation will only occur by breaking either the old or the new concrete.

EPOBOND is resistant to water and many chemicals. It is unaffected by continued exposure to salts, alkalis, acids or solvents.

EPOBOND lends itself to bonding wear courses of concrete to pre-formed concrete structural members, reducing required thickness to lower weights and costs.

EPOBOND is the epoxy binder with controlled flexibility for high strength bonding, minimum creep and deflection, and built in "give" to take the stress of impact loading and thermal change.

Basic Use: **EPOBOND** reduces wicking action of concrete overlay gauging water into old slabs while reducing shrinkage cracks. **EPOBOND** prevents starved glue lines between epoxy grouts, patching compounds and high strength toppings and is appropriate for anchor bolts, dowels and rebar.

ESTIMATING

EPOBOND is a two component product and is packaged in two 1-gallon (7.6 liter) metal cans per case. Each container is clearly identified with product and component name and batch number.

Typical Application: 80-150 sq.ft./gallon) approximately 10-20 mils thick.

TECHNICAL DATA

Applicable Standards:

ASTM C 881, Type I, II, IV, and V, Grade 2, Class B & C
AASHTO-M 235-73, Class III Standard Class
VOC Compliant

Typical Properties:

Mix ratio, volume 1R:1H

Physical properties at 77°F (25°C):

Pot life, minutes 40
Viscosity, (mixed) CPS 2475
Contact time 1 hour
Tack free time, hours 3-4
Initial cure, hours 24
Final cure, days 7

Absorption, % 12%

Bond strength, ASTM C 881

Type 1, psi (MPa), minimum 2460 (17)

Type 2, psi (MPa), minimum 1785 (12.3)

Color Gray

Compressive strength (ASTM C 695)

psi (MPa), minimum 10,400 (72)

Elongation, %, minimum 1

Shrinkage Nil

VOC, g/l <40

INSTALLATION

Surface Preparation: Concrete surfaces must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other foreign matter by sand blasting, mechanical abrasion or acid etching. Remove water and dust from all surfaces with an oil-free air blast immediately prior to application of compound.

Mixing: Temperature of **EPOBOND** and substrate must be 50°F (10°C) or above at time of mixing and placement. Stir each component separately before blending. Mix one part A with one part B with a mechanical mixer at slow speeds until thoroughly blended for a minimum of three minutes.

Application: Apply thin, uniform layer with brush, roller, spray or squeegee at the rate of 80-150 sq.ft./gallon approximately 10-20 mils thick. Avoid forming pools or puddles. Place new concrete, grout or topping while **EPOBOND** is tacky. If surface to be bonded is no longer tacky, it must be reprimed.

Clean Up: Clean tools and mixing equipment with MEK or laquer solvent before **EPOBOND** hardens.

FOR BEST RESULTS:

Surfaces to which concrete is to be bonded must be a minimum 28 days old; 50°F (10°C) and rising; free of laitance, cures, sealers, oil or other contaminants; structurally sound. **EPOBOND** must be tacky at the time of overlay placement. Store at 70°F (22°C) for 24 hours prior to use.



EPOBOND



PRECAUTIONS

Unmixed epoxy catalyst component B is corrosive. Prolonged or repeated exposure to **EPOBOND** components may cause eye or skin irritation. If contact occurs, wash immediately and seek medical help. Wear goggles and protective gloves. Mix in ventilated area, do not breath fumes. Do not thin with solvent.

Please refer to product Material Safety Data Sheet (MSDS) before using.

STORAGE/SHELF LIFE

EPOBOND containers are to be kept tightly sealed and stored in a cool, dry place between 60-85°F (15-30°C). Shelf life is a minimum of one year in unopened containers when properly stored.

WEBSITE

L&M's convenient internet website offers instant access to Tech Data Sheets, Material Safety Data Sheets, product updates, and other useful information. Visit www.lmcc.com and follow the easy steps. L&M is ready to respond to your concrete information needs - anytime - anywhere!

LIMITED WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to L&M Construction Chemicals ("L&M") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond L&M's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. L&M shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. L&M's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

For Professional Use Only.

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