

# E-BOND 510 LPL FLEXIBLE EPOXY COATING

Tested and approved in accordance with ANSI/NSF Standard 61 – 2005, sec. 5 for contact with Potable water

## DESCRIPTION

E-Bond 510LPL is a 2 component 100% solids flexible waterproof and protective epoxy coating designed to bridge minor non structural hairline cracks for concrete surfaces in a moisture-tolerant environment.

## FEATURES AND BENEFITS

- Convenient easy to use 1:1 by volume
- Long pot life for roller or brush coating.
- Hi Build coating can be applied in single coat thickness up to 30 mils..
- Waterproofing and protective coating for concrete and masonry surfaces.
- May be applied to damp and dry surfaces <sup>1</sup>
- Tolerant to moisture before, during, and after cure.
- Zero VOC - Fully Reactive, No low boiling constituents

### TYPICAL DATA

(Material and curing conditions @ 75°F (24°C) and 50% R.H.)

Different temperature information for Pot-Life, Tack-Free Time and Compressive Properties are to be used as a guideline for expected properties in actual field application temperatures.

#### HIGH Build FLEXIBLE EPOXY COATING

<b>Color:</b>	Medium gray <small>Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure</small>
<b>Mixing Ratio:</b> Component A/B	1:1 by volume
<b>Viscosity:</b> ASTM-D-2393 (poises)	
Component A #5 @ 10 rpm	145-155
Component B #4 @ 10 rpm	130-140
Admix #4 @ 10 rpm	105-115
<b>Pot Life:</b>	
(70 ml) 75°F (24°C) Neat in minutes	110
(70 ml) 100°F (38°C) Neat in minutes	25-30

**For All Applications: The user must determine working time for his project.** Working time is affected by mass mixed and temperature. Every 10 degree rise above 75°F will approximately reduce the working time in half.

<b>Tack Free Time:</b>			
<b>Substrate Temperature:</b>	40°F(4°C)	75°F(24°C)	90°F (32°C)
<b>Material Temperature:</b> 75°F (24°C) Hr.	24	6-8	3-5

**Non-Sag:** 75°F (24°C) 30 mils

**Tensile Properties:** (ASTM-D-638)  
 14 day Tensile Strength 600 psi (4.8 MPa)  
 Elongation at Break 70% minimum

**Shelf Life:** 1 Year in original unopened container.

**Storage:** Store dry at 40°F - 95°F (4°C - 35°C). Condition material to 65°F - 75°F (18°C - 24°C) before using. Protect from inclement weather and freezing.

## HOW TO USE 510LPL FEXIBLE COATING

### Surface Preparation

**Concrete** - All surfaces must be prepared to a structurally dense surface to exposed coarse aggregate to reveal an open texture surface by blasting, Ultra-High Pressure Water blasting (>10,000 psi ) or other mechanical means. Remove weak, contaminated deteriorated concrete, asphalt materials, oils, dirt, rubber, curing compounds, paint, carbonation, laitance, and other potentially detrimental materials by blasting, ultra-high pressure water blasting, or other suitable mechanical means. Use extra caution to remove all loose deteriorated concrete created by long term immersion in water and water treatment chemicals

**Steel** - Steel surfaces should be cleaned and prepared by sandblasting to conform to SSPC-SP10 Specification with a 4 mil (0.1mm) minimum anchor profile. If flash rust appears, the surface must be re-blasted to obtain minimum anchor profile.

### Mixing

For best results, condition the components prior to mixing from 65° to 85°F (18°C to 29°C). Premix Component A and B to a homogenous consistency. Proportion equal parts by volume of Component A and Component B into a clean container with flat wall and bottom. Mix thoroughly for a minimum of three minutes using a low speed drill (600 rpm) and a mixing paddle (e.g. a Jiffy® and/or Plunge Mixer™). Keep the paddle below the surface material to avoid entrapment of air. Proper mixing may take 3 to 5 minutes. Thorough mixing of both components is important to obtain optimum results. Carefully scrape the sides and bottom to ensure thorough mixing. Mix until a uniform gray color is achieved. Mix only the amount of material that can be used before the pot life expires.

### Application

**Caution:** E-Bond 510LPL is a moisture-tolerant epoxy before, during and after cure that can be applied to both dry and damp surfaces.

Do not apply to surfaces where moisture is produced by hydrostatic pressure during curing. Moisture and vapor transmission can occur on interior vertical walls of concrete or gunite tanks. Vapor or moisture transmission can create blistering and bond problems. To reduce vapor and out gassing to a minimum apply epoxy in late afternoon or evening with temperatures dropping. Consider fans to exhaust warm air and bring cooler evening air into the tank. Test for vapor transmissions prior to starting full scale work.

For stubborn out gassing contact E-Bond Epoxies Technical Support.

See Limitations Section below.

**Application Rate:** Rate depends upon the Mils applied.

Take 1600 mil ft./ gal and divide by the mil total that will be applied.

Total Square footage need to cover divided by the rate of ft<sup>2</sup>/gal. will give you the theoretical gallons requires.

**Where Priming is Required:** Prime the surface using a stiff brush. Thoroughly and vigorously work the epoxy into the surface to penetrate any dust that may remain on the surface.

**Application Methods:** Apply by high quality stiff brush or roller. Airless or plural component spray equipment is not recommended. Proper hopper spray may be used, immediately follow by back rolling. Thoroughly and vigorously work the epoxy into the surface by stiff brush or roller to penetrate any voids and maximum penetration into the surface. Minimum 2 coats are required. If visible voids are in existence in the coating a 3<sup>rd</sup> coat will be necessary.

When applying several coats to reach final thickness, no more than 24 hours should elapse between coats. Before recoating clean the surface thoroughly to remove all contaminants. For additional information contact E-Bond Epoxies Technical Support.

The recommended procedure for surface preparation to avoid inter-coat adhesion problems is to remove any amine blush by lightly sandblasting the surface of the first coat.

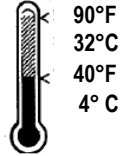
An alternative method can also be used depending on the length of cure and the application. This alternative procedure is to wash down the entire surface of the first coat with a solution of Dawn® Dishwashing Detergent and water. Scrubbing the surface with this solution then rinsing with clean water and allowing the surface to dry.

Rinse with clean water before placing into service.

**PACKAGING:** Available in 4 gallon units. Available in larger units on request.

#### **For Best Performance**

- Precondition the components to 75°F (23°C) for 24 hours before use.
- Minimum ambient, surface, aggregate and epoxy temperatures should be 40°F (4°C) and rising at the time of application.
- Do not add solvents or water to epoxy material.



#### **LIMITATIONS**

- Material is a vapor barrier after cure; test all concrete and masonry surfaces for moisture-vapor transmission prior to application (Ref. ASTM F-1869; ASTM D-4263).
- Do not apply over wet, shimmering surface.
- For applications on exterior on-grade substrates, consult Technical Service.
- Color may alter due to lighting variations and/or UV exposure.
- Proper application is the responsibility of the user. Field visits by E-Bond personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.

#### **CERTIFICATIONS**

NSF: E-Bond 510 LPL is certified to the requirements of NSF/ANSI Standard 61-2005, section 5 for potable water. Test results are available upon written request.

**CAUTION - For professional use only; not for sale to or use by the general public.** E-Bond's epoxies contain alkaline amines. Strong sensitizer; MAY CAUSE SKIN SENSITIZATION or allergic response ranging from a mild wheezing to a severe asthmatic type attack. Avoid contact with skin or eyes. IN CASE OF CONTACT immediately wash skin with soap and water. Flush eyes with water and obtain medical attention. Wear protective clothing, goggles, and barrier cream on all exposed skin.

**LIMITED WARRANTY NOTICE:** E-BOND EPOXIES, INC warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. The purchaser must examine the product when received and promptly notify E-BOND EPOXIES, INC in writing of any nonconformity before the product is used and no later than 30 days after such non-conformity is first discovered. If E-BOND, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty.

The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

E-BOND shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if E-BOND could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.



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