

E-BOND 190 LPL CORROSION RESISTANT COATING SYSTEM



LV Primer / Top Coat

Moisture-Insensitive / Damp Cure Formulation

FOR PROFESSIONAL USE ONLY; NOT FOR SALE TO OR USE BY THE GENERAL PUBLIC

DESCRIPTION

E-Bond 190 LPL Corrosion Resistant Coating System is a 100% solids, solvent free, two-component **MOISTURE INSENSITIVE** epoxy adhesive system. Designed and tested to resist attack by up to 20% concentrations of sulfuric acid.

ADVANTAGES: Provides excellent adhesion to most structural materials
Insensitive to moisture before, during and after cure
Low Viscosity Primer & Heavy Paint Consistency Top Coat

PHYSICAL PROPERTIES

Primer

Type: Moisture Insensitive & Low Temperature Cure
Low Viscosity

Mixing Ratio: 1.6 A to 1 B by Volume

Color: Part A Resin - Amber
Part B Hardener - Amber
Ad-Mix - Amber

Viscosity: Ad-Mix ASTM-D2393 Low Viscosity

Pot Life: (1 Quart @ 75°F) Approx. 30 Minutes

Tack-Free Time: ***40°F (4°C) ***75°F(24°C) ***90°F(32°C)
20-24 hours 4-6 hours 2-4 hours

Top Coat

Moisture Insensitive & Low Temperature Cure
Heavy Paint Consistency
2A to 1 B by Volume

Part A Resin - Light Gray
Part B Hardener - Amber
Ad-Mix - Light Gray

Heavy Paint Consistency

Approx. 30 Minutes

***40°F (4°C) ***75°F(24°C) ***90°F(32°C)
20-24 hours 4-6 hours 2-4 hours

***AMBIENT TEMPERATURE, INDICATES TEMPERATURE FOR CURING & TESTING

Testing was performed on 2 plugs completely submerged in 20% H₂SO₄ for a period of 8 months at 75°F indicating minimal weight gain and minimal loss of strength. Visible inspection showed a slight color change and no deterioration to the coating.

HOW TO USE

SURFACE PREPARATION:

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. All surfaces must be structurally sound, clean, and free of dirt, dust, oil, grease, or any contaminant that would adversely affect the bond. Surfaces may be dry or damp, but free of standing water.

Concrete - On new concrete do not use a curing compound. If curing compounds have been used they must be removed. Prepare surface by shot blasting, Ultra-High Pressure Water Blasting (min. 5000 psi) or other mechanical means recommended to expose structural concrete substrate. All surfaces must be prepared to a structurally dense surface to exposed coarse aggregate to reveal an open texture. Remove weak, contaminated deteriorated concrete, asphalt materials, oils, dirt, rubber, curing compounds, paint, carbonation, laitance, and other potentially detrimental materials by shot blasting, ultra-high pressure water blasting, bush hammering or other suitable mechanical means. Surface preparation by bush hammering, grinding, and milling can create minute fractures or micro cracking in the substrate, which may require re-shotblasting to a structurally dense surface. Voids must be filled before applying primer coat.

190 LV PRIMER

MIXING:

For best results, condition the components prior to mixing from 65° to 85°F (18°C to 29°C). The primer is packaged as a premeasured unit. Blend the entire contents of Component A and the entire contents of 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.

APPLICATION:

Prime the surface using a stiff brush or broom. Thoroughly and vigorously work the epoxy into the surface to penetrate any dust that may remain on the surface.

PACKAGING: Available in premeasured 2.6 gallon units.

COVERAGE: E-Bond #190 LV Primer, applied at the rate of 1.25 gallon per 100 ft² will yield approximately 20 mils

190 TOP COAT

MIXING:

For best results, condition the components prior to mixing from 65° to 85°F (18°C to 29°C). Premix Component B to a homogenous consistency. Proportion by volume two (2) parts of Component A and one (1) part 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:

For All Applications The user must determine working time for his project.

High-Build Coating For Long-Term Protection (Excellent as Protective Lining for Secondary Containment Structures)

E-Bond 190 Coating System provides good chemical resistance for most common chemicals. After thorough mixing apply by brush or roller. Use caution to move the brush or roller in one direction. Cross brushing of this coating will cause streaks and blotchiness. For long-term durability two applications are recommended. Variations in lighting, UV exposure and severe chemicals will change the appearance of the coating

PACKAGING: E-Bond #190 LV Primer: 1.6 Gallons Part A in a 2 gallon bucket; 1 gallon Part B in a 1 gallon bucket
E-Bond #190 LPL Top Coat: Available in 3 gallon and 15 gallon units.

COVERAGE: E-Bond #190 LV Primer applied at the rate of 200 ft² per gallon.
E-Bond #190 LPL Corrosion Resistant Coating Top-Coat, applied at the rate of 2.5 gallon per 100 ft² will yield approximately 40 mils

Shelf Life: 1 Year in original unopened container.

Storage: Store dry at 40°F - 95°F (4°C - 35°C). Protect from inclement weather and freezing.

For Best Performance

- Precondition the components to 75°F (23°C) for 24 hours before use.
- Minimum ambient, surface, 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..
- Not for sealing cracks under hydrostatic pressure.
- Minimum age of concrete must be 21-28 days prior to application of mortar or sealer on slabs.
- Test for moisture vapor transmission prior to application on mortar or sealing slabs. Moisture passing through the substrate by pressure during application and curing of epoxy can cause bond failure.
- Due to many variables in bonding to damp or wet surfaces, be certain to test application under the same conditions as full-scale work.
- For spray applications, consult Technical Service

LIMITATIONS

- Material is a vapor barrier after cure, test on-grade substrates 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.
- Use only bagged oven-dry aggregate of required size and shape.
- 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.

CAUTION

- **MISUSE BY DELIBERATELY INHALING OR INGESTING THE CONTENTS MAY BE HARMFUL OR FATAL.**
- **CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION.**

CLEAN-UP: Ventilate area. Confine spill. Collect with absorbent material. Dispose of in accordance with current, applicable local, state, and federal regulations. Uncured material can be removed with approved solvent. Cured material can only be removed mechanically.

- **KEEP CONTAINER TIGHTLY CLOSED**
- **NOT FOR INTERNAL CONSUMPTION**
- **NOT FOR SALE TO OR USE BY THE GENERAL PUBLIC**
- **KEEP OUT OF REACH OF CHILDREN**
- **FOR PROFESSIONAL USE ONLY**

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

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