

EPIWELD® 90-CI



Product Description

EPIWELD® 90-CI is a water-based epoxy cementitious bonding agent that is designed for use as an anti-corrosion coating for rebar and exposed metal or as a bonding agent for placing new cementitious mixes against existing hardened concrete.

Installation

Before using this product, please refer to the Material Safety Data Sheet for additional information. Proper handling precautions MUST be followed. The conditions of use, handling, and application of this product and information (whether verbal or written), including any suggested formulations and recommendations, are beyond Lambert Corporation's control. Therefore, it is imperative that testing be performed to determine satisfaction and suitability for intended use and health, safety, and environmental issues. The following information is meant as a guideline of best industry practices. While Lambert Corporation does suggest adherence to these guidelines, unforeseeable variables and/or developed successful installer practices may cause variation in methods and/or results.

Surface Preparation

Remove all unsound concrete, and oxidation or scale from reinforcing steel in accordance with ICRI Guide 310.1R. Concrete substrates should be cured properly and structurally sound. Remove all laitance, oil, grease, curing compounds, and other contaminants that may negatively affect the bonding capability of the EPIWELD® 90-CI and prepare in conformance with ICRI Guideline 310.2.

Mixing

All components of EPIWELD® 90-CI should be preconditioned to approximately 70°F (21°C) and agitated prior to mixing with other components. Blend only equal applicable portions on each component to provide total amount that can be practically applied within products working time. Add liquid Components A and B to clean mixing vessel and blend the two components using applicable paddle drill for approximately one (1) minute. Slowly add Component C, while continuing to mix until compound is uniform and free of lumps.

Application

	<p>Packaging:</p> <p>3.5 - Gallon Kit 1-Gallon (3.8-liters) Unit Part A (Liquid) 1-Gallons (3.8-liters) Unit Part B (Liquid) 36-lbs (16.3-kg) Unit Part C (Dry)</p> <p>1.75 - Gallon Kit 1/2-Gallon (1.9-liters) Unit Part A (Liquid) 1/2-Gallons (1.9-liters) Unit Part B (Liquid) 18-lbs (8.2-kg) Unit Part C (Dry)</p>
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Apply EPIWELD® 90-CI with stiff-bristled broom, brush, or adequate sprayer. Make sure to work product thoroughly into substrate to verify complete coverage of irregular exposed area and guarantee complete adhesion. To obtain best results, apply the freshly-mixed cementitious mortar, concrete, or topping mixture onto the EPIWELD® 90-CI bonded section within 6-hours of application. Apply at a rate of 20 wet mils (0.5mm), with multiple coats acceptable in conditions where proper penetration into irregular substrates is required. Verify that all exposed steel is thoroughly coated with EPIWELD® 90-CI.

Limitations



Substrate temperature EPIWELD® 90-CI should not be used where substrate temperature is below 40°F (4°C) or above 95°F (35°C). Do not modify product with addition of water, solvent, aggregate or other material. While product is setting up, protect from direct sunlight, water, wind, and rain. As with all cementitious materials, avoid contact with aluminum to prevent adverse chemical reaction and/or product failure. Insulate potential areas of contact by aluminum with an appropriate epoxy such as EPIWELD® 580 or EPIWELD® 560.

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Technical Information

The following technical information was obtained using EPIWELD® 90-CI at a full-blend ratio (1-gallon Component A; 1-gallon Component B; 36-lbs Component C) at 73°F (22.8°C) in laboratory-controlled conditions.

Working Time (minutes)	90 minutes	
Splitting Tensile Strength - ASTM C496	Age	Strength (PSI)
	28-days	645
Compressive Strength (psi) - ASTM C109	Age	Strength (PSI)
	3-days	>5,000
	7-days	>7,000
	28-days	>10,000
Shear Bond to Concrete (psi) - ASTM C928	Age	Strength (PSI)
	7-days	2,350

Coverage

Apply blended at 80 square feet per gallon (2 m²/L) when at a 20-mils (0.5-mm) thickness.

Clean-Up

Uncured EPIWELD® 90-CI can be cleaned with soap and water. Cured EPIWELD® 90-CI must be mechanically removed.

First Aid

Avoid extensive inhalation and move to fresh air or properly ventilated area where applicable. Avoid contact with skin and wash exposed skin areas promptly with soap and water. If ingestion occurs, immediately drink plenty of water, do not induce stomach and seek medical attention, as you should for all product overexposures. Refer to product Material Safety Data Sheet for further information.

VOC Content

0-g/L or 0.0-lbs/gal less exempt content

KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

EPOXIES