

R2 DEEP REPAIR MORTAR™

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Supersedes all previous publications



Product Description

LAMBCO® R2 DEEP REPAIR MORTAR is a pourable/pumpable single-component shrinkage-compensated modified repair mortar that has been pre-extended with graded aggregate and contains an integral corrosion inhibitor. The addition of clean potable water is all that is needed. LAMBCO® R2 DEEP REPAIR MORTAR is designed for large volume repairs and toppings from 1-inch (2.54-cm) to full depth.

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

Concrete must be structurally sound and fully cured (28-days). Saw cut the perimeter, remove all unsound concrete and roughen the surface for the area to be patched to minimum horizontal and vertical depths of ½-inch (1.27-cm) and 1-inch (2.54-cm) respectively. Remove all laitance, oil, grease, curing compounds, and other contaminants that may negatively affect the bonding capability of the LAMBCO® R2 DEEP REPAIR MORTAR. The concrete substrate should be saturated substrate-dry (SSD), free of all standing water, prior to application. Where exposed rebar warrants use of a surface applied bonding agent / corrosion-resistant rebar primer, use Lambert Corporation's EPIWELD® 580 CI. Refer to relative technical data sheets for complete application instructions.

Mixing

A paddle type mixer or a revolving concrete mixer can be used. Use a container that will facilitate continuous placement. Place water into mixer specifically as directed within this section. LAMBCO® R2 DEEP REPAIR MORTAR will require approximately 4-qts (3.8-liters) potable water total per 50-lbs (22.7-kg) bag to achieve correct mixture. Measure 3-quarts (2.8-liters) of potable water and pour into mixer. Add one 50-lbs (22.7-kg) unit of LAMBCO® R2 DEEP REPAIR MORTAR to mixer and blend for 1-minute. Add remaining 1-quart (0.9-liters) to mixer and blend for a further 2 - 3 minutes to obtain smooth consistency.

Application/Placement

Immediately following the mixing process, apply the correctly blended material onto the prepared saturated surface-dry (SSD) substrate by gloved-hand, trowel, screed, or pump/pour. Ensure proper consolidation of the mortar and compaction around reinforcing steel (see Surface Preparation section regarding use of Lambert Corporation's EPIWELD® 580 CI where exposed reinforcing steel is present). Finish the completed repair, as necessary, preventing overworking of the surface. All project forms should be rigid, secure and properly sealed. Use appropriate Lambert Corporation form release and curing/sealing compound where necessary. Refer to relative technical data sheets for complete application instructions.

	Packaging: 50-lbs (22.7-kg) Bag 2000-lbs (907.2-kg) Bulk Bag
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R2 DEEP REPAIR MORTAR

RESURFACE & REPAIR PRODUCTS

Limitations

LAMBCO® R2 DEEP REPAIR MORTAR is cement based. Follow ACI recommended practices. Do not add cement, plasticizer or accelerator. Avoid placement when temperatures are, or will be below 45°F (7.2°C)

within 24 hours. If it is placed with excess water or at low temperature, both the compressive strength and expansion properties may be adversely affected. Do not retemper after initial mixing.

Technical Information

The following technical information was obtained using a water to LAMBCO® R2 DEEP REPAIR MORTAR ratio of 4-qts (3.8-liters) to 50-lbs (22.7-kg) at 73°F (22.8°C).

Set Time (minutes) - ASTM C-191	Initial	30
	Final	60
Compressive Strength (psi) - ASTM C39	24-hours	>6,250
	3-days	>7,100
	7-days	>8,900
	28-days	>10,400

Coverage

One 50-lbs (22.7-kg) bag of LAMBCO® R2 DEEP REPAIR MORTAR will yield 0.46-ft³ (0.0128-m³) of mortar or cover 5.5-ft² @ 1-inch (0.5-m² @ 25-mm) thick.

Clean-Up

Product can be cleaned up by sweeping, paying attention to minimizing the creation of excess dust. Use water to clean tools and equipment immediately following application. Finished/cured product must be removed with mechanical means.

First Aid

Cement powder or freshly mixed concrete may cause skin injury. Avoid contact with skin and wash exposed skin areas promptly with soap and water. If any cement powder or mixture gets into eyes, rinse immediately and repeatedly with water and get prompt medical attention. Avoid overexposure to the airborne dust. If inhalation occurs, remove to fresh air area. If any discomfort or breathing issues occur, seek immediate medical attention. Refer to product Material Safety Data Sheet for further information.

U.S. State of California Proposition 65

This product contains material listed by the State of California as known, when treated improperly, to cause cancer, birth defects or other reproductive harm.

VOC Content

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

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