



WHITE PLUG™

*White-colored,
ready mixed,
hydraulic
cementitious
repair compound*

Advantages:

- Fast set time of 3 to 4 minutes
- White in color
- Stops running water instantly
- Controlled expansion
- Non-toxic when cured
- Easy to use, sets in place under water

Coverage:

- 1 lb dry mixed to putty with water will fill 17 in³ (278.6cm³)
- 50 lb pail will yield 0.45 ft³ (0.013m³)

*See Coverage
section for full
details*

Packaging:

50 lb (22.7kg) pail
10 lb (4.5kg) can (4/case)

LAMBERT CORPORATION
20 N. COBURN AVENUE, ORLANDO, FLORIDA 32805
PHONE: (407) 841-2940 TOLL FREE: 800-432-4746
FAX: (407) 839-1890
WEBSITE: <http://www.lambertusa.com>

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Product Description

WHITE PLUG™ is a dry powder product composed of hydraulic cement, silica sand, set accelerators and bonding boosters. It sets in 3 to 4 minutes after being mixed with clean water. WHITE PLUG™ is designed as a cementitious repair product that attains maximum strength rapidly. One of its main uses is to stop running or seepage water through cracks or holes in concrete structures. WHITE PLUG™ maintains its dimensional stability thus ensuring a tight firm seal and bond that will not corrode or decompose. It is stronger and more durable than normal portland cement mixes and is more resistant to sulfate solutions.

WHITE PLUG™ is used for concrete repairs to active water leaks, hydrostatic pressure-type water leaks, and underwater concrete repairs. It is compatible with other portland cement based mixes and may be used as a set accelerator making many white portland cement type mixes or mortars suitable for faster repairs.

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

Improper surface preparation can result in less than acceptable WHITE PLUG™ performance. It is very easy to blame adhesion problems on the plug product that is applied when poor surface preparation is where the fault truly lies.

To ensure proper adhesion, the surface must be thoroughly cleaned of all dirt, dust, grease, oil, wax, and loose concrete. Depending on the surface to be treated, the following should be considered. Roughen surface area with wire brush, chisel, etc. Remove loose weakened concrete or mortar. If crack is less than 3/4-inch (19.1mm) in width or depth, widen or gouge to this dimensions to allow enough material in the cavity for proper expansion, strength, and bonding of the plug. Inner portion of the crack should be undercut so the depth of the crack is wider than the surface opening. The creating of an inner cavity allows WHITE PLUG™ to expand in the crack and resist high water pressure. If hole or crack is not leaking at the time of the repair, soak area for at least 15 minutes before installing WHITE PLUG™.

Mixing

Add clean water to small amount of WHITE PLUG™ mix and knead to the consistency of putty or thick mortar. Mixing time should not exceed two (2) minutes. Prepare no more than can be used in three (3) minutes. Warm water speeds set, cold water slows. To further extend setting time mix with white portland cement. Do not add additional water or retemper once mixed.

Application

Surface should be damp. Once water has been added and plug material has attained a putty-like texture, shape to a form similar to the crack or cavity about to be repaired. At this point speed in working is essential. Wear gloves. After forming to a suitable shape, force material in to the crack or cavity compressing it firmly using a gloved palm, trowel, wood block, etc. Hold in place three to five minutes until material hardens. For long vertical cracks, patch with successive small amounts of WHITE PLUG™ starting at the top of the crack.

If there is a strong water flow, put material on a board and hold in place for longer period (five to six minutes). Do not brush or trowel over surface, shave off excess material with knife or similar tool. Roughen or scratch surface if a cement based product is to be later applied.

For anchoring bolts, posts, dowels, etc..., drill hole deep enough and large enough to allow 1/2-inch (12.7mm) to 1-inch (25.4mm) clearance around fixture. Mix to putty consistency and fill hole, then tap fixture firmly into place. Keep damp until cool, approximately 15 minutes.

When used for underwater repairs, WHITE PLUG™ must be mixed and formed above water line, then positioned under and held in place until set.

Curing

Keep surface damp while curing so that surface area will not crack. Mist with water for 15 minute to make sure proper cement hydration is achieved.

Limitations

Low temperatures will retard set time, high temperatures will accelerate set time. Use only clean potable water for mixing. Do not mix WHITE PLUG™ with water over 100°F (37.8°C), or over mix or retemper after use.

Never apply where efflorescence is present. Efflorescence is a white soluble surface salt that breaks down the bond of any cement-based product.

Not intended to be used as a load-bearing patching material, or for overhead or vertical anchoring. Apply test samples under job conditions to be sure you get the results required.

Technical Data

<i>Compressive Strength</i>	<i>2" Cubes</i>	<i>ASTM C-39</i>
• 1 Day		3250 PSI (22.4MPa)
• 3 Days		4900 PSI (33.8MPa)
• 7 Days		6700 PSI (46.2MPa)
• 28 Days		7100 PSI (49.0MPa)

Coverage

One pound (0.45kg) dry WHITE PLUG™ mixed to a putty consistency with water will fill 17 cubic inches (278.6cm³) or a crack approximately 3/4-inch x 3/4-inch x 30-inches long (19.1mm x 19.1mm x 762mm).

Fifty (50) pound (22.7kg) pail, will yield approximately 0.45 cubic feet (0.013m³).

Clean-Up & First Aid

Clean-Up

In case of spillage, sweep into appropriate container, and dispose of in accordance with applicable local, state, and federal regulations. Flush area with large amounts of water. Cured material can only be removed by mechanical methods.

First Aid

Avoid skin and eye contact. Safety goggles, rubber gloves, and the use of a NIOSH/MSA approved dust respirator is recommended. In case of skin contact, slush with water. For

eyes, flush immediately with plenty of water for 15 minutes, and contact a physician. Wash clothing before reuse.

Cement powder or freshly mixed concrete may cause skin injury. Avoid contact with skin and wash exposed areas promptly with water. If any cement powder or mixture gets into eyes, rinse immediately and repeatedly with water and get prompt medical attention.

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