

VIBROPRUF® #11



Product Description

VIBROPRUF® #11 is a single-component, non-metallic, non-shrink cementitious grout material that requires only the addition of water. VIBROPRUF® #11 is formulated to provide an excellent property set in all relative categories including flow, strength and setting time and conforms to the test methods of ASTM C-1107, USACE CRD C-621 & C-588. VIBROPRUF® #11 is designed to reach high-compressive strengths suitable for use at column bases and bearing plates, for anchoring dowels, rebar and tie rods, and for setting beds for structural precast concrete elements.

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. Proper application is the responsibility of the user. Field visits by Lambert Corporation personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Surface Preparation

Remove all unsound concrete and roughen the surface, if necessary, to a minimum 1/4-inch (6.4-mm). 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 VIBROPRUF® #11. Concrete substrate should be saturated surface-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® 90 CI. Refer to relative technical data sheets for complete application instructions.

Mixing and Placement

A paddle type mixer or a revolving concrete mixer can be used. Use a container that will facilitate continuous placement. Place water into mixer before dry mortar. VIBROPRUF® #11 will require approximately 3.5-quarts (3.3-liters) potable water for plastic consistency, approximately 4-quarts (3.8-liters) potable water for flowable consistency, or approximately 4.5-quarts (4.25-liters) potable water for fluid consistency per 50-lbs (22.7-kg) bag based on project requirements to achieve correct mixture. Blend for approximately 3- to 5-minutes before placing material.

Application / Placement

Apply the mixed material onto the prepared saturated surface-dry (SSD) substrate. Ensure proper consolidation of the mortar and compaction around reinforcing steel (see Surface Preparation section regarding use of Lambert Corporation's EPIWELD® 90 CI where exposed reinforcing steel is present). Minimum application thickness is 1/4-inch (6.4-mm). Always place grout from only one side of the equipment to prevent air entrapment beneath the equipment, utilizing a "groutbox" or similar device for a continuous pour to avoid air pockets. Keep "groutbox" half full at all times while pouring to prevent uneven flow. Discard any product that becomes unworkable. Make sure that the material fills the entire space being grouted and that it remains in contact with plate throughout the grouting process. Do not vibrate VIBROPRUF® #11 when applying/placing. Steel straps inserted under the plate should be used to help move grout. Before removing grout forms or excess grout, verify that VIBROPRUF® #11 offers resistance to penetration using a pointed mason's trowel or similar equipment. For dry packing VIBROPRUF® #11, mechanically mix grout to "plastic" consistency. Allow to set five minutes; then forcefully pack spaces to be dry-packed. Uniformly and thoroughly fill spaces, then cover-cure for 24-hrs with wet clean cloth rags. Cure all exposed grout with a Lambert Corporation approved membrane curing compound compliant with ASTM C 309 or ASTM C 1315.

Limitations

VIBROPRUF® #11 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. For applications greater than 3-inches (7.6-cm) in depth, use 25 - 50-lbs (11.4 - 22.7-kg) of 3/8-inch (10-mm) washed, graded, rounded, low absorption, high-density aggregate per 50-lb (22.7-kg) bag. Do not retemper after initial mixing.

FORM RELEASES	NON-SHRINK GROUT
RESURFACING	BONDING AGENTS
ADMIXTURES	EPOXY PRODUCTS
SEALERS	WATERPROOFING
TILES	REPAIR PRODUCTS
DAMP-PROOFING	CONCRETE COLORS

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50-LBS (22.7-KGS)

VIBROPRUF #11

PORTLAND CEMENT BASED GROUT

FOR INDUSTRIAL USE ONLY

Review Product Data & Material Safety Sheet (MSDS) prior to using. Do not use until completely familiar with instructions for use.

VOC Rating: NO VOCs

EXPOSED SURFACES MUST BE PROTECTED BY LAMBERT CORPORATION'S EPIWELD® 90 CI

Lambert Corp. ("Lambert") warrants that any product purchased from Lambert Corporation is free of defects in material and workmanship at the time of purchase. This warranty is made in lieu of any and all other warranties, expressed or implied, including warranties of merchantability and/or fitness which are hereby disclaimed. It is understood and agreed that buyer's sole remedy, and Lambert's liability, whether in contract, tort, under any warranty, in negligence or otherwise, shall be limited to the repair or replacement of any defective goods sold by Lambert. Under no circumstances shall Lambert be liable for special, indirect, or consequential damages. Before application, the Purchaser must determine the suitability of the product for his/her needs and use and must bear the expense of testing and delivery to the construction site. The terms of this paragraph may not be orally modified. There are no warranties which extend beyond the face hereof.

Packaging:

50-lbs (22.7-kg) Bag

50-lbs (22.7-kg) Pail

VIBROPRUF® #11

GROUTS



Technical Information

The following technical information was obtained using water to non-extended VIBROPRUF® #11 ratios as are listed within the chart at 72°F (22.2°C). VIBROPRUF® #11 is approved under FDOT Section 934, and successfully meets or exceeds the testing within ASTM C-1107, U.S. Army Corp of Engineers CRD C-621, and CRD C-588.

		Plastic	Flowable	Fluid
Water Requirements (quarts)		3.5	4.0	4.5
Set Time (minutes) - ASTM C-191	Initial	110	210	285
	Final	260	330	390
Compressive Strength (psi) - ASTM C109	24-hours	5320	5070	4375
	3-days	6970	6660	6165
	7-days	7865	8340	8020
	28-days	10055	10210	10415
Flow Table Analysis (%) - ASTM C230		110	132	N/A
Flow Cone Analysis (seconds) - CRD C-611		N/A	N/A	16
Expansion - CRD C-227	3-days	+0.04	+0.02	+0.01
	14-days	+0.04	+0.03	+0.01
	28-days	+0.05	+0.03	+0.01
Pull-Out Test / Max Load (lbs) - ASTM E-488	7-days - #4 Rebar	14300		
	7-days - #6 Rebar	35965		
	7-days - #8 Rebar	64000		
	14-days - #4 Rebar	13765		
	14-days - #6 Rebar	33565		
	14-days - #8 Rebar	60490		
	28-days - #4 Rebar	13615		
	28-days - #6 Rebar	44530		
28-days - #8 Rebar	72200			

Coverage

One 50-lbs (22.7-kg) bag of VIBROPRUF® #11 will yield 0.45-ft³ (0.013-m³) of mortar or cover 5.4-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.