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RESEARCH REPORT: RR 24860
(CSI #07120)

Expires: November 1, 2023
Issued Date: October 29, 2021
Code: 2020 LABC

GENERAL APPROVAL - Renewal - Liquid Boot Spray Applied Membrane for Below-Grade Waterproofing and Gas Barrier.

DETAILS

Liquid Boot membrane is a two-component system of chloroprene modified asphaltic (CMA) emulsion. Both components are waterborne and are spray applied cold to provide a monolithic, single course, 80 mils minimum membrane thickness for below-grade waterproofing and 60 mils minimum membrane thickness for the gas barrier.

This product is approved for below-grade waterproofing and gas barrier subject to the following conditions:

1. The chloroprene modified asphaltic emulsion and catalyst shall be supplied in clearly marked containers bearing the brand name and product identification. Both components shall be supplied by the same source manufacturer.
2. The manufacturer shall provide quality assurance of the materials supplied as to their formulation.
3. Application of the product shall be accomplished by an applicator approved by the manufacturer. A written statement by the manufacturer stating that the applicator is an approved applicator is required prior to use of the product.
4. All surfaces to receive membrane shall be free of laitance, sharp projections, oil, dirt, or other contaminants. Prepare surfaces in accordance with the manufacturer's instructions.

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5. Installation of the materials shall be in accordance with the manufacturer's instructions, a copy of which shall be kept at the job site.
6. Complete details for the membrane system are submitted for plan check, and a building permit is obtained.
7. The following field tests in accordance with the Liquid Boot Field Installation and Repair Procedure are required: (A copy of the Installation and Repair Procedures is on file with Engineering Research Section.)
 - a) Perform Thickness Sample Test at every 500 square feet.
 - b) For gas barrier application, perform Smoke Test for the entire site at an interval not more than 50,000 sq. ft. each.
8. Protection for the membrane shall be provided in accordance with the written instructions by the engineer of the record.
9. Prior to placing the concrete slab over the membrane, the membrane installer shall certify the membrane to be installed and tested in accordance with the manufacturer's specifications and to be free of leaks.
10. The membrane is not to be placed under the building footings.
11. For gas membrane installation, continuous inspection by a registered deputy inspector certified by CETCO Liquid Boot Company and registered in accordance with the requirements specified in Section 91.1704.2 of the Los Angeles Municipal Code for special inspections is required.

DISCUSSION

The report is in compliance with the 2020 City of Los Angeles Building Code.

The use of Liquid Boot for a gas barrier is based on the tests in accordance with the methane barrier test criteria.

The approval is based on tests.

This general approval of an equivalent alternative to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

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Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers, and builders using items approved herein in design or construction which must be approved by the Department of Building and Safety Engineers and Inspectors.

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