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RESEARCH REPORT: RR 25546
(CSI #07120)

Expires: May 1, 2011
Issued Date: May 1, 2009
Code: 2008 LABC

GENERAL APPROVAL – Renewal-Clerical Modification - VaporLock-m™ Methane Barrier System for Below-Grade Water Proofing and Gas Barrier..

DETAIL

VaporLock-m™ Methane Barrier System is composed of Tuff-N-Dri or Tuff-N-Dri MV installed over a geotextile fabric. Tuff-N-Dri® or Tuff-N-Dri MV is a fluid-applied, single component, polymer-modified asphalt emulsion. The VaporLock-m-system is designed for applications on grade, over a sand substrate, or over unusually irregular substrata such as wood lagging. Tuff-n-Dri is applied directly to substrata such as cast in place (CIP) concrete or concrete masonry units (CMU), and on decks. The minimum thickness of the system is 60 mils total, when measuring the composite of geotextile fabric and applied cured polymer-modified asphalt emulsion. For applications directly to solid substrate, a 70 mil wet film thickness shall be applied as per the application instructions.

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

1. VaporLock-m™ Methane Barrier System shall be supplied in clearly marked containers bearing the brand name and product identification.
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.

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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.
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 Tremco Barrier Solutions 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. Perform Smoke Test for the entire site at the 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 Tremco Barrier Solutions, Inc., and registered in accordance with the requirements specified in Section 91.1701 of the Los Angeles Municipal Code for special inspections is required.

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DISCUSSION

The clerical modification is to modify the technical modification description.

The technical modification is to include Tuff-N- Dri MV emulsion as system liquid and added geotextiles, as per VaporLock™ Application Instructions, revised July 2008.

The use of VaporLock-™ Methane Barrier System for water-proofing and gas barrier is based on tests in accordance with below-grade water proofing and the methane barrier test criteria.

This general approval of an equivalent alternate 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.

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 Department of Building and Safety Engineers and Inspectors.

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