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RESEARCH REPORT: RR 26110
(CSI #07 17 00)

REEVALUATION DUE
DATE: November 1, 2022
Issued Date: May 21, 2021
Code: 2020 LABC

GENERAL APPROVAL – Renewal – Hydro-Ultra Mat B Series Waterproofing for below-grade wall and slab waterproofing.

DETAILS

Hydro-Ultra Mat B series is a Bentonite Clay Waterproofing Membrane made from Sodium Bentonite Clay encapsulated between 2 needle punched geotextile layers, one side is a woven and the other is non-woven geotextile. The waterproofing membrane is packaged in roll sizes of 6.56 feet wide by 98 feet long with a total membrane thickness of 80 mil minimum.

Hydro-Ultra Mat B series is designed for use as a waterproofing barrier. It is used for below grade waterproofing applications such as, shoring applications, such as wood lagging, concrete caisson, shotcrete retention walls, soil nail walls and under concrete foundation slabs. Hydro-Ultra Mat B is approved for cast-in-place concrete and pneumatically applied concrete in accordance with LA City Testing Criteria for pneumatically applied concrete.

The approval is subject to the following conditions:

1. Installation of the product shall be in accordance with the manufacturer's instructions and the requirements herein. A copy of this report and the installation instructions shall be provided at each job site by the manufacturer.
2. The substrate is to be cleaned and prepared prior to Hydro-Ultra Mat installation.
3. The backfill of the foundation must be clean soil free of rocks or other deleterious materials and placed so as not to damage the foundation or the membrane system.

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4. Seams and repairs shall be completed in accordance with the manufacturer recommendations on file with the Engineering Research Section.
5. The maximum Hydrostatic pressure the barrier can withstand is 50 pounds per square inch.
6. The product shall be in full contact with the wall and soil at all times.
7. Installation shall be performed by an installer approved by the manufacturer.
8. All membrane joints shall have a minimum width in accordance with the manufacturer's specifications or as noted in the Details Section of this general approval.
9. Complete details for the membrane system shall be submitted to Structural Plan Check Division for review and approval.
10. The bentonite should not be wet or pre-hydrated before compaction is placed on or against the membrane.
11. The membrane is manufactured by Hydro-Gard, LLC in Yorba Linda, California with quality control inspections by ICC-ES.
12. Hydro-Ultra Mat B shall be identified by a stamp on the packaging that bears the name Hydro-Gard, LLC, the products name and LARR No. 26110.

DISCUSSION

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

The approval is based on tests and Acceptance Criteria for Below Grade Exterior Damp proofing and Waterproofing Materials (L201).

Evidence of satisfactory performance of the product as used in the City of Los Angeles is on file in the Engineering Research Section.

The product was tested by applying Shotcrete to front face of the test panel per the LA City Testing requirements for Waterproofing membrane used with pneumatically applied concrete. Concrete cores were taken from the test panel and results are in compliance.

Approval allows the use of the product on a bentonite layer with pneumatically applied concrete (gunitite or shotcrete), is based on the test report by TRI Testing, Research, Consulting and Field Testing, Incorporated with a maximum aggregate size of 3/8 inch.

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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 Department of Building and Safety Engineers and Inspectors.

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.

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