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RESEARCH REPORT: 25768
(CSI #07110)

Expires: March 1, 2025
Issued Date: March 1, 2024
Code: 2020 LABC

GENERAL APPROVAL – Renewal - CoreFlex 45 & CoreFlex 60 – Membrane for Below-Grade Waterproofing and Methane Barrier

DETAILS

CoreFlex 45 is a composite sheet waterproofing membrane consisting of a 45 mil (1.1mm) thick thermoplastic membrane with an integrally bonded Active Polymer Core layer (APC). Standard roll size is 54” wide by 50’ long (1.4m x 15m).

CoreFlex 60 is a composite sheet waterproofing membrane consisting of a 60 mil (1.5mm) thick thermoplastic membrane with an integrally bonded Active Polymer Core layer (APC). Standard roll size is 54” wide by 50’ long (1.4m x 15m).

The approval is subject to the following conditions:

1. The above product is approved for below-grade waterproofing as required by Chapter 18 of the Los Angeles Building Code. The product may be used in conjunction with Los Angeles City approved caulking materials at penetrations of the waterproofing membrane.
2. The application of the material shall be in accordance with the manufacturer's instructions. A copy of the instruction shall be available at each job site.
3. 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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4. Approved products shall be delivered to the job site in sealed containers properly identified with the trade name.
5. The product shall be in full contact with the wall and soil at all times.
6. Prior to placing the concrete over the membrane, the membrane installer shall certify the membrane to be installed which is in good condition in accordance with the manufacturer's specifications.
7. The membrane was tested at a maximum hydrostatic pressure of 153.4 psi which is equivalent to a head of 353.53 feet of water for CoreFlex 45.
8. The membrane was tested at a maximum hydrostatic pressure of 150.8 psi which is equivalent to a head of 348.44 feet of water for CoreFlex 60.
9. Complete details for the membrane system are submitted for plan check and a building permit is obtained.
10. For gas membrane installation, continuous inspection by a registered deputy inspector certified by Cetco, and registered in accordance with the requirements specified in Section 1705.1.6 of the Los Angeles City Building Code for special inspections is required.
11. Continuous inspection is required for the liner of Concrete Fire Water Tank for continually submersed conditions.
12. For gas membrane installation, the following field tests in accordance with the Cetco 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.
13. The membrane is not to be placed under the building's footings.

DISCUSSION

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

The approval is based on tests and Acceptance Criteria for Below-Grade exterior Damp-Proofing and Waterproofing Materials (L201) and Methane Barrier Test Criteria (L137).

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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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