

CITY OF LOS ANGELES
CALIFORNIA

BOARD OF
BUILDING AND SAFETY
COMMISSIONERS

VAN AMBATIELOS
PRESIDENT

JAVIER NUNEZ
VICE PRESIDENT

JOSELYN GEAGA-ROSENTHAL
GEORGE HOVAGUIMIAN
ELVIN W. MOON



ERIC GARCETTI
MAYOR

DEPARTMENT OF
BUILDING AND SAFETY
201 NORTH FIGUEROA STREET
LOS ANGELES, CA 90012

OSAMA YOUNAN, P.E.
GENERAL MANAGER
SUPERINTENDENT OF BUILDING

JOHN WEIGHT
EXECUTIVE OFFICER

Harco Americas
4260 Wagon Trail Avenue
Las Vegas, NV 89118

Attn: Didier Varlot
Didier.Varlot@harcoamericas.com

RESEARCH REPORT: RR 26190
(CSI #07 14 16)

Expires: April 1, 2023
Issued Date: April 15, 2021
Code: 2020 LABC

Local Representative:
Tim Simpson
TS82590@gmail.com

GENERAL APPROVAL – Renewal – Neptune Coatings Wetsuit® Spray Applied Membrane for Below-Grade Waterproofing and Methane Barrier.

DETAILS

Neptune Coatings Wetsuit® is a fluid-applied, two components, polymer-modified bitumen emulsion. Neptune Coatings Wetsuit® is a membrane for below-grade that performs as a damp-proofing, wall waterproofing, methane barrier material on cast-in-place concrete, concrete masonry unit, and insulating concrete forms. For damp proofing applications, Neptune Coatings Wetsuit® is applied directly to substrates such as cast in place (CIP) concrete or concrete masonry units (CMU). The minimum thickness of the cured polymer modified bitumen emulsion film should not be less than 80 mils. For applications directly on a substrate, a 100 mils wet film thickness should be applied as per the application instructions.

When used for methane barrier, Neptune Coatings Wetsuit® is installed over a geo-textile fabric or a vapor barrier consisting of 10 to 40 mils thick geo-textile or composite geo-membrane. The system is designed for applications on concrete over an earthen substrate or over irregular substrates such as timber lagging. The thickness of the Neptune Coatings Wetsuit® applied cured polymer modified bitumen emulsion film should be no less than 80 mils dry.

Geo-textile fabrics are adjoined by overlapping seams of minimum 4 inches reinforced with 20 mils dry of Neptune Coatings Wetsuit® Undercover or covered by a peel and stick reinforcing

RR 26190
Page 1 of 4

Harco Americas

RE: Neptune Coatings WetSuit® Liquid Spray Applied Membrane for Below-Grade Water Proofing and Methane Barrier

fabric of 6 inches width. The Neptune Coatings Wetsuit® is then applied with a minimum thickness of 80 mils dry as per the manufacturer installation instructions.

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

1. The chloroprene modified bitumen 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.
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 shall be submitted for review and a building permit shall be obtained.
7. The design and construction of the foundation and drainage system is outside the scope of this report. The foundation drainage system shall be installed in accordance with Section 1805.4 of the 2020 Los Angeles Building Code.
8. Seams and repairs shall be completed in accordance with the manufacturer's recommendations (on file with the Engineering Research Section).
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. Protection for the membrane shall be provided in accordance with the written instructions by the engineer of the record.
11. The membrane is not to be placed under the building footings.

Harco Americas

RE: Neptune Coatings WetSuit® Liquid Spray Applied Membrane for Below-Grade Water Proofing and Methane Barrier

12. For gas membrane installation, continuous inspection by a Deputy Inspector registered in accordance with Section 1704.2.1 of the 2020 Los Angeles City Building Code for special inspection, is required. A Deputy Report shall be given to the Building Inspector verifying the membrane installation complies with all the requirements contained in this Approval Letter.
13. For gas membrane installations, field tests are required in accordance with the manufacturer's installation and repair procedure (on file with the Engineering Research Section).
14. The maximum hydrostatic pressure the barrier can withstand is 100 psi.
15. The membrane is approved for application with pneumatically applied concrete (shotcrete).

DISCUSSION

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

The use of Neptune Coatings Wetsuit® as a gas barrier is based on the tests in accordance with the methane barrier test criteria.

The use of Neptune Coatings Wetsuit® as a water proofing membrane is based on the tests in accordance with the water and damp proofing test criteria.

The use of Neptune Coatings Wetsuit® is approved for shotcrete applications based on City of Los Angeles approved testing procedure.

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.

Harco Americas

RE: Neptune Coatings WetSuit® Liquid Spray Applied Membrane for Below-Grade Water
Proofing and Methane Barrier

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.

QUAN NGHIEM, Chief
Engineering Research Section
201 N. Figueroa St., Room 880
Los Angeles, CA 90012
Phone - 213-202-9812
Fax - 213-202-9943

QN
RR26190
TLB2100058
R04/12/2021
7103/7104/1403.2