

ICC-ES Evaluation Report

ESR-1416

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A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 11 00—Dampproofing

Section: 07 14 00—Fluid-Applied Waterproofing
REPORT HOLDER:

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EVALUATION SUBJECT:

DECO 20 SEAL WATERPROOFING MEMBRANE

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2012, 2009 and 2006 *International Residential Code*® (IRC)
- BOCA® *National Building Code/1999* (BNBC)

Property evaluated:

- Foundation waterproofing
- Foundation dampproofing

2.0 USES

DECO 20 Seal Waterproofing Membrane is a fluid-applied dampproofing and waterproofing membrane applied to the exterior of foundation walls of cast concrete or parged and nonparged masonry unit construction. The membranes are alternates to the dampproofing materials specified in 2012 and 2009 IBC Section 1805.2.2, 2006 IBC Section 1807.2.2 and IRC Section R406.1. The membranes are also alternates to the waterproofing materials specified in 2012 and 2009 IBC Section 1805.3.2, 2006 IBC Section 1807.3.2 and IRC R406.2.

3.0 DESCRIPTION

DECO 20 Seal Waterproofing Membrane is a 100 percent water-based, acrylic polymer resin coating. The membrane has a maximum allowable resistance to hydrostatic pressure of 2.5 psi (17.2 kPa) when tested over a ¹/₁₆-inch-wide (1.6 mm) crack in accordance with ASTM C1306. The coating is supplied in 5-gallon (19.0 L) containers, 55-gallon (208 L) drums and 265-gallon (1002 L) totes.

4.0 INSTALLATION

Installation of DECO 20 Seal Waterproofing Membrane shall comply with this report and the manufacturer's published installation instructions. In the event of conflict between this report and the installation instructions, this report shall govern. The manufacturer's published installation instructions shall be available at the jobsite at all times during installation.

DECO 20 Seal Waterproofing Membrane shall be applied to the exterior vertical surfaces of foundation walls of cast concrete or parged and nonparged masonry unit construction. Before applying the waterproofing to an exterior foundation surface, the surface shall be structurally sound, clean, dry, and free of dust, mud, loose mortar, sand, soil, frost or other loose materials. Additionally, there shall be no fins, metal projections or any substance that will prevent bonding of the membrane to the surface. Holes and recesses resulting from the removal of form ties shall be sealed with a bituminous material or by other approved methods or materials.

The air temperature for application shall be limited to a minimum of 28°F (-3°C). The minimum dry film thickness of the applied membrane shall be 0.017 inch [(0.43 mm) (17 mils)]. The membrane shall be allowed to cure for a period of 4 to 48 hours (depending on environmental conditions) before any backfill is placed against the wall, unless membrane protection is provided.

5.0 CONDITIONS OF USE

The DECO 20 Seal Waterproofing Membrane described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Installation shall comply with this report, the manufacturer's published installation instructions and the applicable code.
- 5.2 DECO 20 Seal Waterproofing Membrane shall be limited to applications on the exterior vertical surfaces of foundation walls of cast concrete or parged and nonparged masonry unit construction.
- 5.3 Joints and penetrations of the walls to which DECO 20 Seal Waterproofing Membrane is to be applied shall be made watertight in accordance with the applicable code.
- 5.4 This report is limited to an evaluation of DECO 20 Seal Waterproofing Membrane applied at a minimum wet film thickness of 0.025 inch [(0.63 mm) (25 mils)], which cures to a minimum dry film thickness of 0.017 inch [(0.43 mm) (17 mils)].

5.5 When use is in dampproofing applications, a subsurface soil investigation of the level of groundwater at the construction site must be performed to verify the nonexistence of hydrostatic pressure.

6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's published installation instructions and manufacturer's descriptive literature.
- 6.2 Data in accordance with the ICC-ES Acceptance Criteria for Cold, Liquid-applied, Below-grade, Exterior

Dampproofing and Waterproofing Materials (AC29), dated June 2011 (editorially revised August 2013).

6.3 A quality control manual.

7.0 IDENTIFICATION

Containers of DECO 20 Seal Waterproofing Membrane as described in this report shall be identified by a label bearing the manufacturer's name (DECO Products) and address, the product name and the evaluation report number (ESR-1416).