ICC-ES Evaluation Report

ESR-2702

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DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07140—Fluid-Applied Waterproofing

REPORT HOLDER:

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EVALUATION SUBJECT:

ULTRA-SHIELD™

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Property evaluated:

Foundation waterproofing

2.0 USES

Ultra-Shield™ is a liquid-applied waterproofing membrane used on the exterior of below-grade parged or unparged masonry and concrete foundation walls.

3.0 DESCRIPTION

Ultra-Shield™ is a polymer-modified, asphalt waterproofing membrane. The membrane has a resistance to hydrostatic pressure of 1.25 psig (8.6 kPa) over a $^{1}/_{16}$-inch-wide crack when applied in accordance with Section 4.0 and tested in accordance with ASTM C 1306. Ultra-Shield™ is available in 5-gallon (18.9 L) pails, 55-gallon (208 L) drums, 275-gallon (1041 L) totes and bulk containers. Shelf life is one year from the date of manufacture, when stored unopened at temperatures between 60°F and 80°F (15.6°C and 26.7°C).

4.0 INSTALLATION

4.1 General:

Installation must comply with this report, the applicable code and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

4.2 Surface Preparation:

Surfaces of substrates must be structurally sound, clean, dry and free of dust, sand, soil, frost or loose materials. Additionally, there must be no fins, metal projections or any substances that will prevent bonding of the membrane to the surface of the substrate. Voids in masonry or concrete, such as tie-rod holes or honeycombed areas, must be filled with nonshrinking grout or an asphalt-based mastic. When nonshrinking grout is used to fill voids, the grout must be allowed to cure before the membrane is applied. Masonry and concrete must be cured prior to the application of the membrane.

4.3 Application:

The ambient air temperature at time of application must be 15°F (-8°C) or greater. Ultra-Shield™ is brush-, roller- or spray-applied to the substrate in coats at a coverage rate of 1 gallon per 22.5 square feet (0.56 L/m^2) for each coat, to achieve a minimum dry film thickness of 40 mils [0.040 inch (1.0 mm)]. The membrane is applied to the exterior vertical surfaces of below-grade foundation walls of parged or unparged masonry and concrete. The membrane must be allowed to cure for a minimum of 24 hours before any backfill or membrane protection is placed against the wall.

5.0 CONDITIONS OF USE

The Ultra-Shield™ 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 must comply with this report, the manufacturer's published installation instructions and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.

5.2 Application is limited to installations on exterior vertical surfaces of below-grade parged or unparged masonry and concrete foundation walls.

5.3 Joints and penetrations of the walls to which Ultra-Shield™ is applied must be made watertight in accordance with the applicable code.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Cold, Liquid-applied, Below-grade, Exterior Dampproofing and Waterproofing Materials (AC29), dated February 2004 (editorially revised January 2008).

7.0 IDENTIFICATION

Each container of Ultra-Shield™ described in this report must be identified by a label bearing the manufacturer's name (GMX, Inc.), the product name, lot number, application instructions and the evaluation report number (ESR-2702).

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