

ICC-ES Evaluation Report


ESR-2702

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<p>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</p> <p>Section: 07 11 00— Dampproofing</p> <p>Section: 07 14 00— Fluid-Applied Waterproofing</p>	<p>REPORT HOLDER: GMX, INC.</p>	<p>EVALUATION SUBJECT: ULTRA-SHIELD® WB, BONEDRY® WPT AND HOUSE GUARD® TRUDRY™</p>	
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1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 [International Building Code® \(IBC\)](#)
- 2021, 2018, 2015, 2012, 2009 and 2006 [International Residential Code® \(IRC\)](#)
- 2013 *Abu Dhabi International Building Code (ADIBC)*[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Property evaluated:

- Foundation waterproofing
- Foundation dampproofing

1.2 Evaluation to the following green standards:

- 2020, 2015, 2012 and 2008 ICC 700 [National Green Building Standard™](#) (ICC 700-2020, ICC 700-2015, ICC 700-2012, and ICC 700-2008)

Attribute verified:

- See Section 3.0

2.0 USES

Ultra-Shield® WB, BoneDry® WPT and House Guard® TruDry™ are liquid-applied waterproofing and dampproofing membranes used on the exterior of below-grade parged or unparged masonry and concrete foundation walls. The membranes are alternates to the dampproofing materials specified in 2021, 2018, 2015, 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 2021, 2018, 2015, 2012 and 2009 IBC Section 1805.3.2 (2006 IBC Section 1807.3.2) and IRC 406.2.

3.0 DESCRIPTION

Ultra-Shield® WB, BoneDry® WPT and House Guard® TruDry™ are polymer-modified, asphalt waterproofing and dampproofing membranes. House Guard® TruDry™ and Ultra-Shield® WB are identical to BoneDry® WPT. The membranes have a resistance to hydrostatic pressure of 3 psi (20.7 kPa) over a 1/16-inch-wide crack when applied in accordance with Section 4.0 and tested in accordance with ASTM C1306. Ultra-Shield® WB,

BoneDry® WPT and House Guard® TruDry™ are 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).

The attributes of the Ultra-Shield® WB, BoneDry® WPT and House Guard® TruDry™ liquid-applied waterproofing membranes have been verified as conforming to the provisions of ICC 700-2020 Sections 602.1.2 and 11.602.1.2, ICC 700-2015 and ICC 700-2012 Section 602.1.2 and ICC 700-2008 Section 602.11 for foundation waterproofing. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

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 (-26°C) or greater. Ultra-Shield® WB, BoneDry® WPT and House Guard® TruDry™ are 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/m²) 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.

5.0 CONDITIONS OF USE:

The Ultra-Shield® WB, BoneDry® WPT and House Guard® TruDry™ waterproofing membranes described in this report comply with, or are 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® WB, BoneDry® WPT and House Guard® TruDry™ are applied must be made watertight in accordance with the applicable code.
- 5.4 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

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 2020).

7.0 IDENTIFICATION

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

7.2 The report holder's contact information is the following:

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