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ICC-ES Evaluation Report

ESR-2231

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This report is subject to renewal 04/2020.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 11 00—DAMPPROOFING
SECTION: 07 14 00—FLUID-APPLIED WATERPROOFING

REPORT HOLDER:

PAZKAR LTD.

EVALUATION SUBJECT:

RAPIDFLEX AND ELASTOPAZ LIQUID-APPLIED WATERPROOFING MEMBRANES



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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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:

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1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 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 dampproofing and waterproofing

1.2 Evaluation to the following green standards:

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

Attribute verified:

See Section 3.1

2.0 USES

Rapidflex and Elastopaz Liquid-Applied Waterproofing Membranes are fluid-applied dampproofing and waterproofing membranes applied to the exterior of foundation walls of parged or unparged concrete masonry units or cast-in-place concrete construction. The membranes are alternates to the dampproofing materials specified in 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 2015, 2012 and 2009 IBC Section 1805.3.2, 2006 IBC Section 1807.3.2 and IRC Section R406.2.

3.0 DESCRIPTION

3.1 General:

Rapidflex and Elastopaz Liquid-Applied Membranes are water-based polymer modified bituminous membranes. The manufacturer's recommended storage temperature range is between 41°F and 86°F (5°C and 30°C).

The attributes of the Rapidflex and Elastopaz Liquid-Applied Membranes have been verified as conforming to the provisions of 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.

3.2 Elastopaz:

Elastopaz has a resistance to hydrostatic pressure of 5.5 psi (37.9 kPa) over a 1/8-inch-wide (3.2 mm) crack when applied in accordance with Section 4.0 and tested in accordance with ASTM C1306. Elastopaz is supplied in 5-gallon (18.9 L) pails with a shelf life of 12 months.

3.3 Rapidflex:

Rapidflex has a resistance to hydrostatic pressure of 4 psi (27.6 kPa) over a 1/8-inch-wide (3.2 mm) crack when applied in accordance with Section 4.0 and tested in accordance with ASTM C1306. It is supplied in 264-gallon (1000 L) cubes and 50-gallon (189 L) drums with a shelf life of 12 months.

4.0 DESIGN AND INSTALLATION

Installation of Rapidflex and Elastopaz Liquid-Applied Waterproofing Membranes must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

The Rapidflex membrane is spray-applied in one coat, to a wet film thickness of 128 mils [0.128 inch (3.3 mm)] which cures to a dry film thickness of 128 mils [0.128 inch (3.3 mm)], to the exterior vertical surfaces of below-grade foundation walls of parged or unparged concrete masonry units or cast-in-place concrete construction.

The Elastopaz membrane is brush/squeegee or spray-applied in two coats, to a total wet film thickness of 95 mils [0.095 inch (2.4 mm)] which cures to a total dry film thickness of 60 mils [0.060 inch (1.52 mm)], to the exterior

vertical surfaces of below-grade foundation walls of parged or unparged concrete masonry units or cast-in-place concrete construction.

The surface to which the coatings are applied must be structurally sound, clean, dry, and free of dust, mud, loose mortar, 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. Voids in concrete or concrete masonry, tie holes and honeycombed areas in the foundation wall must be filled with nonshrinking grout or an asphalt-based mastic. Where nonshrinking grout is used for filling voids, the grout must be allowed to cure before the membrane is applied. Concrete and parged masonry surfaces must be cured and dry prior to application of the membranes.

The air temperature during application must be in the range of 41°F to 95°F (5°C to 35°C).

Both membranes are required to cure for a period of 24 hours before any backfill is placed against the wall. Protection boards must be placed against the wall to protect the membrane when backfill contains angular stone or other sharp objects.

5.0 CONDITIONS OF USE

The Rapidflex and Elastopaz Liquid-Applied Waterproofing Membranes described in this report comply with, or are suitable alternatives 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 The coatings are limited to applications on the exterior vertical surfaces of below-grade foundation walls.

5.3 Joints and penetrations of the walls to which the coatings are to be applied must be made watertight in accordance with the requirements of the applicable code.

5.4 This report is limited to an evaluation of the coatings applied to the minimum thickness stated in Section 4.0 of this report.

5.5 Application of the coatings on uncured ("green") concrete is outside the scope of this report.

5.6 When used in dampproofing applications, a subsurface soil investigation of the level of ground water 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 October 2014).

7.0 IDENTIFICATION

7.1 Containers of the liquid-applied membranes as described in this report are identified by a label bearing the manufacturer's name (Pazkar Ltd.) and address, the product name (Rapidflex or Elastopaz) and the evaluation report number (ESR-2231).

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

PAZKAR LTD.
ALON-TAVOR INDUSTRIAL ZONE
POST OFFICE BOX 2030
AFULA, 18000
ISRAEL
011 972 4 6423111
www.pazkar.com
nitsaq@pazkar.co.il