UES® EVALUATION REPORT Number: 395

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METAL LATHE WATERPROOFING SYSTEM

CSI Section: 07 18 13 Pedestrian Traffic Coatings

1.0 RECOGNITION

Multicoat Corporation's Metal Lathe Waterproofing System recognized in this report has been evaluated for use as a walking deck and classified roof covering. The following properties were evaluated – durability, weather resistance, wind uplift, concentrated load and impact resistance, and fire classification. The coating system is recognized as a satisfactory alternative coating for use under the following codes and editions:

- 2018, 2015, and 2012 International Building Code® (IBC)
- 2018, 2015, and 2012 International Residential Code® (IRC)
- 2020 Florida Building Code, Building (FBC, Building) – supplement attached
- 2020 Florida Building Code, Residential (FBC, Residential) – supplement attached

2.0 LIMITATIONS

Use of the Metal Lathe Waterproofing System recognized in this report is subject to the following limitations:

2.1 The Metal Lathe Waterproofing System shall be manufactured, identified, and installed in accordance with this report and the applicable code. In the event of a conflict, this report governs.

2.2 The Metal Lathe Waterproofing System shall be installed on slopes not less than one unit vertical in 48 units horizontal (2-percent slope).

2.3 The supporting structure shall be designed to support the loads and is beyond the scope of this report.

2.4 Multicoat Corporation's Metal Lathe Waterproofing System is manufactured in Rancho Santa Margarita, California.

3.0 PRODUCT USE

3.1 Installation: The Metal Lathe Waterproofing System shall be installed in accordance with the manufacturer's published installation instructions, the applicable code, and this report. Liquid components shall be applied when the ambient temperature is between 55°F and 90°F (13°C and 32°C) and the relative humidity is between 43 and 82 percent. Liquid materials shall not be applied when rain or precipitation is occurring or expected before the installation is complete.

Substrates and all coating surfaces shall be structurally sound, clean, dry, and sloped to meet the minimum requirements of the applicable code. Damaged areas shall be cleared of all existing material, repaired, and the fire classification and strength properties shall be investigated. The results shall be submitted to the building official for approval.

3.1.1 Substrates: Wood-based substrates shall be minimum nominally $^5/_8$ inch (15.9 mm) thick, shall have tongue and groove edges, and shall be exterior grade panels complying with U.S. DOC PS-1 or PS-2, in accordance with the applicable code. Edges shall be blocked. Seams between the sheathing and all exposed joints shall be caulked. Penetrations and terminations of the sheathing shall be protected with minimum No. 26 gage [0.019 inch (0.48 mm)], corrosion-resistant metal flashing extending a minimum of 2 inches (51 mm) onto the sheathing.

3.1.2 Lath: The metal lath shall be placed in a staggered pattern with lath joints a minimum of 6 inches (152 mm) offset from sheathing joints. Metal lath joints shall be lapped a minimum of 1 inch (25.4 mm) and shall be fastened to the sheathing using minimum No.16 gage [0.0598 inch (1.52 mm)], 1-inch-crown (25.4 mm), $^5/_8$-inch-long (15.9 mm), corrosion-resistant staples. The staples shall be spaced a minimum of 3 inches (76 mm) on-center in the field and 1 inch (25.4 mm) on-center at the overlap joints.

3.1.3 Multi-Base: Multi-Base shall be mixed per instructions on the bag and poured over the metal lath. The base coat shall fully cover the metal lath and fully dry before application of the next layer. The coverage rate shall be 40 to 60 square feet (3.72 to 5.57 m^2) per bag.

3.1.4 Mulasticoat®: Mulasticoat® shall be roll-placed over the Multi-Base in two layers. All flashing details (coves, 90° corners, drains, and posts) shall be coated with Mulasticoat® embedded into polyester stitch bond fabric. The first coat shall dry 1 to 2 hours before application of the second coat. The second coat is roll-applied cross-wise to the first coat. Fine sand shall be broadcast over the second coat of Mulasticoat® while it is still wet. Excess/loose sand shall be brushed off after drying prior to application of Krete Kote/Top Coat. The coverage rate shall be 40 to 50 square feet (3.72 to 4.64 m^2) per gallon.

3.1.5 Krete Kote/Top Coat: Krete Kote/Top Coat shall be mixed per instructions on the bags and trowel- or squeegee-applied over the dry Mulasticoat® in one or two layers. The coverage rate shall be 100 square feet (9.29 m^2) per bag.

3.1.6 Acrathane Colorseal: Acrathane Colorseal, when used, shall be applied directly in two coats at a combined rate of 150 to 200 square feet (13.9 to 18.6 m^2) per gallon with a total dry film thickness of 0.005 inches (0.13 mm).

3.2 Wind Resistance: The maximum allowable wind loads under the 2018 IBC and IRC are limited to 130mph (58 m/sec) Exposure B at 40 feet (12.2 m) maximum roof height and by the capacity of the deck construction. The decking shall be designed to withstand wind pressures determined in accordance with Section 1609.5.1 of the IBC or Section R301.2.1 of the IRC.

4.0 PRODUCT DESCRIPTION

4.1 General: Multicoat Corporation's Metal Lathe Waterproofing System recognized in this report is a cementitious, multi-layer, protective coating system for use on above-ground walking decks. The system has a Class A fire classification, when tested in accordance with ASTM E108 and installed in accordance with Section 3.1 of this report.

4.2 Components: The system consists of a resin-modified cementitious base coat (**Multi-Base**), with an embedded corrosion-resistant metal lath, an elastomeric waterproofing membrane (**Mulasticoat®**), a synthetic resin modified cementitious top coating (**Krete Kote/Top Coat**), and an optional sealer (**Acrathane/Colorseal**).

4.2.1 Multi-Base is a resin-modified cementitious base coat provided in 65-pound (29.5 kg) bags which are field-mixed with 1 to 1¼ gallons (3.8 to 4.7 liters) of water. Bags of Multi-Base have a shelf-life of two years when stored in unopened containers and dry conditions at temperatures between 40°F and 90°F (4.4°C and 32°C).

4.2.2 The metal lath is minimum 2.5 pound-per-square-yard (1.36 kg/m^2) galvanized diamond-mesh expanded metal lath complying with ATM C847.

4.2.3 Mulasticoat® is an elastomeric waterproofing membrane provided in 1-, 5-, and 55-gallon (3.8, 18.9, and 208 liter) containers or 275-gallon (1,041 liter) totes. Mulasticoat has a shelf life of eighteen months when stored in unopened containers at temperatures between 55°F and 90°F (13°C and 32°C).

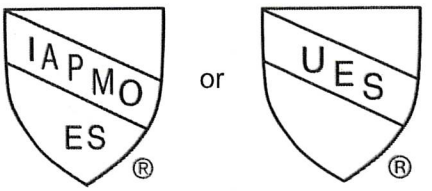
4.2.4 Krete Coat/Topcoat is a synthetic resin modified cementitious top coating provided in 65-pound (29.5 kg) bags which are field-mixed with 1¾ to 2 gallons (6.6 to 7.6 liters) of water. Unopened bags have a shelf-life of 2 years when stored in dry conditions at temperatures between 40°F and 90°F (4.4°C and 32°C).

4.2.5 Acrathane Colorseal is a water-based modified resin sealer provided in 1- and 5-gallon (3.8 and 18.9 liter) pails. Colorseal has a shelf-life of 24 months when stored in unopened containers at temperatures between 40°F and 90°F (4.4°C and 32°C).

4.3 Fire Classification: Multicoat Corporation's Metal Lathe Waterproofing System, when installed in accordance with this report at a slope of one unit vertical in 48 units horizontal (2-percent slope), has a Class A roof fire classification, based on testing in accordance with ASTM E108.

5.0 IDENTIFICATION

Each of the coating components described in Section 4.2 of this report bears a label with the manufacturer's name (Multicoat Corporation), address, product name, shelf life, a batch number keyed to the date of manufacture, and evaluation report number (ER-395). Either UES Mark of Conformity may be used as shown below:



IAPMO UES ER-395

6.0 SUBSTANTIATING DATA

6.1 Data in accordance with ICC-ES AC39, dated June 2017, editorially revised May 2018.

6.2 Data in accordance with ASTM E108.

6.3 Manufacturer's descriptive literature and installation instructions.

6.4 Test reports are from laboratories in compliance with ISO/IEC 17025.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Multicoat Corporation's Metal Lathe Waterproofing System to assess conformance to the codes and standards shown in Section 1.0 of this report and documents the product's certification. The product is manufactured at the location specified in Section 2.4 of this report under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email at info@uniform-es.org

FLORIDA SUPPLEMENT

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CSI Section: 07 18 13 Pedestrian Traffic Coatings

1.0 RECOGNITION

Multicoat Corporation's Metal Lathe Waterproofing System evaluated in IAPMO UES ER-395 is recognized for use as a walking deck and classified roof covering and is a satisfactory alternative coating for use under the following codes and regulations:

- 2020 Florida Building Code, Building (FBC, Building)
- 2020 Florida Building Code, Residential (FBC, Residential)

2.0 LIMITATIONS

Use of the coating system described in this report supplement is subject to the following limitations:

2.1 Verification shall be provided that a quality assurance agency audits the manufacturer's quality assurance program and the production quality of its products, in accordance with Section (5)(d) of Florida Rule 61G20-3.008. The quality assurance agency shall be approved by the Commission (or the building official when the report holder does not possess an approval by the Commission).

2.2 The system is limited to use in 130 mph (58 m/sec) Exposure B wind at 40 ft (12.2 m) maximum roof height and by the capacity of the deck construction. The scope of the review excludes the requirements for High-velocity Hurricane Zones under the Florida Building Code.

2.3 This supplement expires concurrently with ER-395.