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Revised: 02/10/2023

Valid Through: 02/28/2024

**LISTING REPORT FOR
KEMPER SYSTEM AMERICA**
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LISTING SUBJECT: KEMPER ASTM E108 CLASS A ROOFING SYSTEM

CSI Section:

07 52 00 Modified Bituminous Sheet Roofing

1.0 SCOPE OF LISTING

1.1 Compliance with the following standard:

- ASTM E108 – Standard Test Methods for Fire Tests of Roof Coverings

1.2 Properties assessed:

- Fire Classification

2.0 LIMITATIONS

Kemper System America Kemperol roofing assembly components as described below are recognized as conforming to ASTM E108 with the following limitations:

2.1 The Kemper System America Kemperol roofing assemblies 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 Kemper System America Kemperol components recognized in this report are manufactured in West Seneca, New York.

3.0 SYSTEM DESCRIPTION

3.1 Kemperol AC Speed FR: Kemperol AC Speed FR is a two-component cold liquid-applied Polymethyl Methacrylate (PMMA) roof covering, reinforced with Kemperol Fleece 120, a non-woven polyester fleece with a weight of 0.39 oz/ft² (120 g/m²) used in mechanically attached applications. Kemperol AC Speed FR consists of a white or gray resin (Component A) mixed with Kemper CP Catalyst Power (Component B), as per the manufacturer's installation instructions.

3.1.1 Fire Classification for Roof Coverings: Kemperol AC Speed FR roof covering has a Class A roof system when tested and evaluated over noncombustible concrete decks in

accordance with ASTM E108 in the installation configuration shown below:

3.1.2 Kemperol AC Speed FR System:

Deck: Structural Concrete

Barrier Board: ½-inch (12.7 mm) thick USG SECUREROCK® Cement Roof Board.

Primer: Kempertec AC Primer, applied at a rate of 125 ft² per 15 kg.

First Coating: Kemperol AC Speed FR, Component A and Component B, were mixed and 2/3 of the Kemperol AC Speed FR and applied at 60 ft² per 15 kg as the base coat.

Reinforcement: Kemperol Fleece 120, polyester fleece, 0.39 oz/ft² (120 g/m²) rolled into the first coating application.

Second Coating: The remaining 1/3 of the Kemperol AC Speed FR was applied to complete the membrane at a rate of 60 ft² per 15 kg work pack.

Fasteners: 12-inch long (305 mm) OMG Galvalume Steel plate and #14 OMG Heavy Duty Fastener installed 2 inches on center.

3.2 Kemperol Reflect 2K FR: Kemperol Reflect 2K FR is a two-component cold liquid-applied polyurethane resin membrane roof covering system, reinforced with Kemperol Fleece 165, a non-woven polyester fleece with a weight of 0.54 oz/ft² (165 g/m²) used in mechanically attached applications. Kemperol Reflect 2K FR consists of a Component A and a Component B that are mixed at a 2.55:1 ratio by volume, as per the manufacturer's installation instructions.

3.2.1 Fire Classification for Roof Coverings: Kemperol Reflect 2K FR membrane roof covering system has a Class A roof system when tested and evaluated over noncombustible concrete decks in accordance with ASTM E108 in the installation configuration shown below:

3.2.1.1 Kemperol Reflect 2K FR System:

Deck: Structural Concrete

Barrier Board: ¼-inch (6.4 mm) thick G-P DensDeck Prime Roof Board.

Primer: Kempertec D Primer, applied at a rate of 1 gal/100-ft².

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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LISTING REPORT

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First Coating: Kemperol Reflect 2K FR, Component A and Component B, were mixed and 2/3 of the Kemperol Reflect 2K FR were applied at 3.10 gal/100-ft² as the base coat.

Reinforcement: Kemperol Fleece 165, polyester fleece, 0.54 oz/ft² (165 g/m²) rolled into the first coating application.

Second Coating: The remaining 1/3 of the Kemperol Reflect 2K FR was applied at a rate of 3.4 gal/100-ft² to complete the membrane at a rate of 6.5 gal/100-ft².

Fasteners: 12-inch long (305 mm) OMG Galvalume Steel plate and #14 OMG Heavy Duty Fastener installed 2 inches on center.

4.0 INSTALLATION

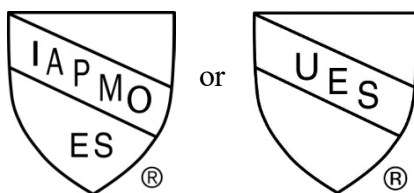
4.1 General: The manufacturer's published installation instructions and this listing shall be strictly adhered to. A copy of the instructions and this listing report shall be available at all times on the jobsite during installation. Where conflicts between this listing report and the installation instructions occur, the more restrictive shall govern.

4.2 Kemperol AC Speed FR is installed after the resin has been mixed with Kemperol roller nap or brush as per the published installation instructions. Installation shall occur in ambient temperatures between 23°F (-5°C) and 95°F (35°C). The shelf life of Kemperol AC Speed FR is 18 months with proper storage.

4.3 Kemperol Reflect 2K FR is applied after the resin has been mixed using Kemperol roller nap or brush as per the published manufacturer's installation instructions. Installation shall occur in ambient temperatures between 41°F (5°C) and 90°F (32°C). The shelf life of Kemperol Reflect 2K FR is 12 months with proper storage.

5.0 IDENTIFICATION

Kemperol AC Speed FR and Kemperol Reflect 2K FR roof covering systems are identified by a label affixed on product packaging. The label shall include the company name (Kemper System America), name of the model, name of the inspection agency and listing report number (UEL-5026). The identification shall also include one of the IAPMO Uniform Evaluation Service Marks of Conformity. Either Mark of Conformity may be shown as follows:



IAPMO UES UEL-5026

6.0 SUBSTANTIATING DATA

6.1 Reports of testing in accordance with ASTM E108 Standard Test Methods for Fire Tests of Roof Coverings.

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

7.0 STATEMENT OF RECOGNITION

This listing report describes the results of research carried out by IAPMO Uniform Evaluation Service on Kemper System America Kemperol roofing assembly components to assess conformance to the standards shown in Section 1.0 of this report and documents the product's certification. Kemper System America Kemperol roofing assembly components are produced at locations noted in Section 2.2 of this report under a quality control program with periodic inspection under the supervision of IAPMO UES.

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