MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Kemper Systems, Inc
1182 Teaneck Road
Teaneck NJ 07666

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Kemperol Membrane System

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This new NOA consists of pages 1 through 12.
The submitted documentation was reviewed by Frank Zuloaga, RRC.

PRODUCT CONTROL ACCEPTED

WATERPROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Waterproofing

Materials: Polyurethane
Maximum Design Pressure **-441 psf** (For all three systems).
Fire Classification: N/A
Note: Fire classifications and maximum design velocity pressures are not relevant to this system.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

Product	Dimensions	Test Specification	Product Description
Kemperol BR	10.88 gal. workpack	N/A	Two-part polyester fluid applied membrane. .
Kemperol EP Primer	1.24 gal. workpack	N/A	Two-part solvent free epoxy primer
Kemperol Fleece	164 ft long rolls of varies widths.	N/A	Non-woven needed-punched polyester mat.

EVIDENCE SUBMITTED

Test Agency	Test Identifier	Test Specification	Date
IRT-Arcon	03-012	TAS 114	11/12/03
	03-013		
	03-014		
	03-015		
IRT-Arcon	03-005	TAS 114	4/11/03
	03-006		
	03-007		
	03-008		
	03-009		
	03-010		
Factory Mutual	OD6A6.AM	FM 4470	06/14/01
Underwriters Laboratories Inc.	98NK26412	UL 790	02/09/99
PRI Asphalt Technologies	IRT-014-02-01	ASTM D 638	10/17/03

APPROVED APPLICATIONS:

Deck Type 1	Concrete Decks, Roof Plaza Decks
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza decks)
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	Kemperol EP Primer shall be applied to prepared concrete deck at a minimum rate of 0.7gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf.
Membrane:	Apply Kemperol BR Resin: Mix Part A (with Catalyst) and Part B in 1:1 ratio and roller or brush apply to primed surface at a minimum rate of 4.5 gal/100 sf. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal/100 sf to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
Surfacing:	Apply a coat of EP primer at a minimum rate of 1.5 gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf to the cured membrane surface.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
Topping:	Structural Concrete Slab, minimum 2500 psi, with a minimum 3" thickness applied in accordance with applicable Building Code.
Maximum Design Pressure	**-377.5 psf.** (See General Limitaion #8)

Deck Type 1	Concrete Decks, Roof Plaza Decks
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza decks)
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
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Membrane:	Apply Kemperol BR Resin: Mix Part A (with Catalyst) and Part B in 1:1 ratio and roller or brush apply to primed surface at a minimum rate of 4.5 gal/100 sf. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal/100 sf to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
Surfacing:	Apply a coat of EP primer at a minimum rate of 1.5 gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf to the cured membrane surface.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Insulation:	Dow Plazamate Extruded Polystyrene Insulation adhered in Millenium Adhesive's Weather-tite One-Step Foamable Adhesive with ½" to ¾" wide ribbons at 6" o.c. to the surfaced membrane.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
Topping:	Structural Concrete Slab, minimum 2500 psi, with a minimum 3" thickness applied in accordance with applicable Building Code.
Maximum Design Pressure	**-152.5 psf.** (See General Limitaion #8)

Deck Type 1	Concrete Decks, Roof Plaza Decks
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza decks)
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	Kemperol EP Primer shall be applied to prepared concrete deck at a minimum rate of 0.7gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf.
Membrane:	Apply Kemperol BR Resin: Mix Part A (with Catalyst) and Part B in 1:1 ratio and roller or brush apply to primed surface at a minimum rate of 4.5 gal/100 sf. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal/100 sf to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
Surfacing:	Apply a coat of EP primer at a minimum rate of 1.5 gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf to the cured membrane surface.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Insulation:	Dow Plazamate Extruded Polystyrene Insulation adhered in Millenium Adhesive's Weather-tite One-Step Foamable Adhesive with ½" to ¾" wide ribbons at 6" o.c. to the surfaced membrane.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
Topping:	Concrete tile, (4000 psi) with minimum demission of 12" x 12" by 1" thick adhered in Millenium Adhesive's Weather-Tite One-Step Foamable adhesive with ½" to ¾" wide ribbons at 6" o.c. directly to the insulation.
Maximum Design Pressure	**-280 psf.** (See General Limitaion #8)

Deck Type 1	Concrete Decks, Roof Plaza Decks
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza decks)
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	Kemperol EP Primer shall be applied to prepared concrete deck at a minimum rate of 0.7gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf.
Membrane:	Apply Kemperol BR Resin: Mix Part A (with Catalyst) and Part B in 1:1 ratio and roller or brush apply to primed surface at a minimum rate of 4.5 gal/100 sf. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal/100 sf to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
Surfacing:	Apply a coat of EP primer at a minimum rate of 1.5 gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf to the cured membrane surface.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
Topping:	Clay tile with minimum demission of 12" x 12" by $^1/_2$" thick adhered in full bed of latex modified mortar/adhesive to the surfaced membrane.
Maximum Design Pressure	**-365 psf.** (See General Limitaion #8)

Deck Type 1	Concrete Decks, Roof Plaza Decks
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza decks)
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	Kemperol EP Primer shall be applied to prepared concrete deck at a minimum rate of 0.7gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf.
Membrane:	Apply Kemperol BR Resin: Mix Part A (with Catalyst) and Part B in 1:1 ratio and roller or brush apply to primed surface at a minimum rate of 4.5 gal/100 sf. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal/100 sf to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
Surfacing:	Apply a coat of EP primer at a minimum rate of 1.5 gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf to the cured membrane surface.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
Topping:	Concrete tile, (4000 psi) with minimum demission of 12" x 12" by $^1/_2$" thick adhered in Millenium Adhesive's Weather-Tite One-Step Foamable adhesive with ½" to ¾" wide ribbons at 6" o.c. directly to the insulation.
Maximum Design Pressure	**-377.5 psf.** (See General Limitaion #8)

Deck Type 1	Concrete Decks, Roof Plaza Decks
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza decks)
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	Kemperol EP Primer shall be applied to prepared concrete deck at a minimum rate of 0.7gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf.
Membrane:	Apply Kemperol BR Resin: Mix Part A (with Catalyst) and Part B in 1:1 ratio and roller or brush apply to primed surface at a minimum rate of 4.5 gal/100 sf. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal/100 sf to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
Surfacing:	Apply a coat of EP primer at a minimum rate of 1.5 gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf to the cured membrane surface.
Insulation:	Foamular Sanded face extruded polystyrene insulation adhered in Millenium Adhesive's Weather-tite One-Step Foamable Adhesive with ½" to ¾" wide ribbons at 6" o.c. to the surfaced membrane.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
Topping:	Structural Concrete Slab, minimum 2500 psi, with a minimum 3" thickness applied in accordance with applicable Building Code.
Maximum Design Pressure	**-441psf.** (See General Limitaion #8)

Deck Type 1	Concrete Decks, Roof Plaza Decks
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza decks)
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	Kemperol EP Primer shall be applied to prepared concrete deck at a minimum rate of 0.7gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf.
Membrane:	Apply Kemperol BR Resin: Mix Part A (with Catalyst) and Part B in 1:1 ratio and roller or brush apply to primed surface at a minimum rate of 4.5 gal/100 sf. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal/100 sf to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
Surfacing:	Apply a coat of EP primer at a minimum rate of 1.5 gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf to the cured membrane surface.
Insulation:	Foamular Grooved face extruded polystyrene insulation adhered in Millenium Adhesive's Weather-tite One-Step Foamable Adhesive with ½" to ¾" wide ribbons at 6" o.c. to the surfaced membrane.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
Topping:	Structural Concrete Slab, minimum 2500 psi, with a minimum 3" thickness applied in accordance with applicable Building Code.
Maximum Design Pressure	**-388 psf.** (See General Limitaion #8)

Deck Type 1	Concrete Decks, Roof Plaza Decks
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza decks)
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	Kemperol EP Primer shall be applied to prepared concrete deck at a minimum rate of 0.7gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf.
Membrane:	Apply Kemperol BR Resin: Mix Part A (with Catalyst) and Part B in 1:1 ratio and roller or brush apply to primed surface at a minimum rate of 4.5 gal/100 sf. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal/100 sf to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
Surfacing:	Apply a coat of EP primer at a minimum rate of 1.5 gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf to the cured membrane surface.
Insulation:	Foamular Sanded face extruded polystyrene insulation adhered in Millenium Adhesive's Weather-tite One-Step Foamable Adhesive with ½" to ¾" wide ribbons at 6" o.c. to the surfaced membrane.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
Topping:	Clay tile with minimum demission of 12" x 12" by $^1/_2$" thick adhered in full bed of latex modified mortar/adhesive to the surfaced membrane.
Maximum Design Pressure	**-320 psf.** (See General Limitaion #8)

Deck Type 1	Concrete Decks, Roof Plaza Decks
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza decks)
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	Kemperol EP Primer shall be applied to prepared concrete deck at a minimum rate of 0.7gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf.
Membrane:	Apply Kemperol BR Resin: Mix Part A (with Catalyst) and Part B in 1:1 ratio and roller or brush apply to primed surface at a minimum rate of 4.5 gal/100 sf. Embed the fleece directly into the resin and use a roller to saturate the fleece from the bottom up, adding resin to the top to saturate dry spots. Additionally, add the topcoat of resin at a minimum rate of 2 gal/100 sf to complete fleece saturation before the resin cures. Roll excess resin toward any unsaturated fleece. Minimum membrane thickness of 70 dry mils.
Surfacing:	Apply a coat of EP primer at a minimum rate of 1.5 gal/100 sf with kiln dried silica sand (.4 -.8 mm) broadcast immediately into the wet primer at the rate of 30 lbs/100 sf to the cured membrane surface.
Insulation:	Foamular Grooved face extruded polystyrene insulation adhered in Millenium Adhesive's Weather-tite One-Step Foamable Adhesive with ½" to ¾" wide ribbons at 6" o.c. to the surfaced membrane.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. All defects shall be corrected.
Topping:	Clay tile with minimum demission of 12" x 12" by $^1/_2$" thick adhered in full bed of latex modified mortar/adhesive to the surfaced membrane.
Maximum Design Pressure	**-327 psf.** (See General Limitaion #8)

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. A copy of the integrity test described herein in accordance with ASTM 5957, shall be provided to the Building Official for review at time of final inspection.
3. All work shall be performed by a Contractor licensed to do roofing/waterproofing. Contractor shall be familiar with the details and shall be approved by Kemper Systems.
4. Flashings shall be installed according to the manufacturer's published standard details and shall be submitted to the Building Official for review.
5. Contractor shall submit to the Building Official for review the system specifications and details. Submission of these documents, as well as the proper application and installation of all materials shall be the sole responsibility of the contractor.
6. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and the wind load requirements of applicable Building Code.
7. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
8. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE