

## KEMPEROL AC MEMBRANE SYSTEM FOR ROOFING

### BASIC USE

The KEMPEROL® AC membrane system is intended for use in roofing applications where the utmost in speed of application is of paramount importance.

Typical applications include: direct-to-substrate roofing, recover roofing, insulated roofing, IRMA roofing, green/landscaped roofing, and metal recover roofing.

### PRODUCT DESCRIPTION

The Kemperol AC roofing system is a fully reinforced, cold fluid-applied membrane system.

The Kemperol AC system is based primarily upon advanced polymethyl methacrylate technology, incorporating a liquid component and a powdered catalyst, with each component curing in approximately one hour. A decorative polymethyl methacrylate finish can be applied as either a smooth color coating or a textured aggregate surfacing.

The Kemperol AC system includes the following components:

- Kempertec AC Primer
- Kemperol AC Resin with Kemperol 165 Polyester Fleece Reinforcement
- Kempertec AC Adhesion Key Surfacing (Optional)
- Kemperdur AC Finish (Optional)

The Kemperol AC membrane system components average under 35 g/l VOC and are not solvent-based.

### TECHNICAL ADVANTAGE

The Kemperol AC same-day application system is suitable for both exterior and well-ventilated interior applications where speed of system application is critical.

The Kemperol AC system is exceptionally durable, reliable, and long-lasting, and has a combination of physical properties that makes it ideal for an exceptionally wide range of applications.

Unlike many other roofing systems, the Kemperol AC system incorporates flashings that are made of the same materials as the roofing membrane itself, essentially creating a seamless, self-terminating monolithic membrane that readily adapts to the contours of the substrate.

The Kemperol AC system bonds directly to the substrate, eliminating the possibility of water moving laterally beneath the roofing

membrane. The system eliminates seams, pitch pockets, metal sleeves and termination bars, which are the locations where most leakage occurs.

Kemperol AC bonds tenaciously to all common construction materials including concrete, CMU block, brick, wood, stainless steel, copper, galvanized steel, aluminum, cast iron, glass, fiberglass, cement board, treated gypsum board, and rigid PVC. The

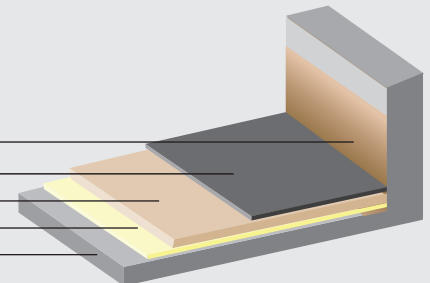
Kemperol treated gypsum board, and rigid PVC. The Kemperol AC system can be used to transition from one material to another without need of intermediate separation flashings.

Kemperol AC is resistant to UV exposure without need of a separate protection layer. Kemperol AC is root and rot resistant, and resists degradation by most oils, grease, and other common chemical substances. In addition, Kemperol AC is unaffected by

### TYPICAL ASSEMBLIES

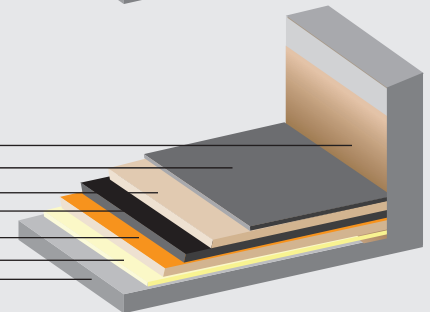
#### STANDARD ROOFING ASSEMBLY

KEMPEROL AC FLASHING  
 KEMPERDUR AC FINISH (OPTIONAL)  
 KEMPEROL AC MEMBRANE  
 KEMPERTEC AC PRIMER  
 APPROVED DECK/EXISTING ROOF ASSEMBLY



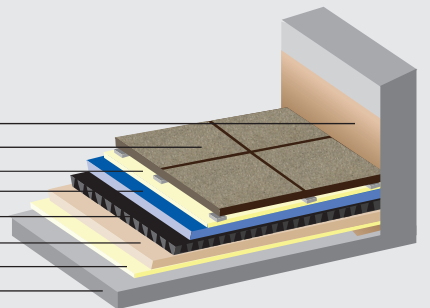
#### INSULATED ROOFING ASSEMBLY

KEMPEROL AC FLASHING  
 KEMPERDUR AC FINISH (OPTIONAL)  
 KEMPEROL AC MEMBRANE  
 APPROVED COVER BOARD  
 APPROVED ISOCYANURATE FOAM INSULATION  
 KEMPERTEC AC PRIMER  
 APPROVED DECK/EXISTING ROOF ASSEMBLY



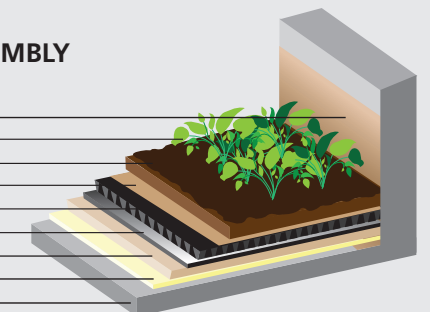
#### IRMA ROOFING ASSEMBLY

KEMPEROL AC FLASHING  
 STONE OR PRECAST CONCRETE PAVERS WITH PEDESTALS  
 FILTER FABRIC (TYPICAL)  
 EXTRUDED POLYSTYRENE INSULATION  
 DRAINAGE BOARD (OPTIONAL)  
 KEMPEROL AC MEMBRANE  
 KEMPERTEC AC PRIMER  
 APPROVED DECK



#### GREEN/LANDSCAPED ROOFING ASSEMBLY

KEMPEROL AC FLASHING  
 PLANTINGS  
 SOIL/GROWING MEDIA  
 FILTER FABRIC  
 DRAINAGE BOARD  
 WATER RETAINAGE MAT  
 KEMPEROL AC MEMBRANE  
 KEMPERTEC AC PRIMER  
 APPROVED DECK



standing water and ice, and can be left submerged indefinitely.

## INSTALLATION OUTLINE

REFER TO THE KEMPEROL TECHNICAL MANUAL FOR COMPLETE INSTALLATION INFORMATION.

- **Substrate Preparation:** Ensure that the substrate is clean and dry. Remove all contaminants and existing coatings from all surfaces to allow proper adhesion of the Kemperol system. Roughen all metal flashing surfaces by grinding.
- **Substrate Repair:** Route out all moving cracks and fill with urethane sealant. Non-moving cracks will be filled during priming application.
- **Temporary Roof / Vapor Retarder:** As required, install a layer of mineral-surfaced base sheet to the structural deck.
- **Insulation/Cover Board:** Install approved isocyanurate foam insulation/cover board to the structural deck, either with urethane foam adhesive or mechanical fasteners.
- **Primer:** Apply Kempertec AC primer to all substrate surfaces. Allow to fully cure.
- **Membrane:** Install Kemperol AC membrane and flashing system to primed surfaces. All moving cracks are to be reinforced with an initial strip of Kemperol AC membrane prior to application of the full system.
- **Surfacing:** For all applications where an adhered overburden is to be applied, such as concrete, tile, stucco, asphalt pavement, etc., apply Kempertec AC primer over the entire area to be covered, and broadcast kiln-dried sand into the wet primer.

• **Coating:** For applications where a colored coating or aggregated surfacing is desired, apply Kemperdur AC finish.

• **Overburden:** For IRMA and green/land-scaped assemblies, install extruded polystyrene insulation, drainage boards, concrete pavers, water retainage mat, soil/growing media, plantings, or other specified and approved overburden materials.

All Kemper System, Inc. products are intended for PROFESSIONAL USE ONLY.

## WARRANTY INFORMATION

Kemper System, Inc. warrants its products to be free of defects, and will provide replacement materials at no charge for any product proven to be defective.

Kemper System, Inc. provides technical installation training to qualified contractors, who are then eligible to become Kemper System Authorized Applicators.

In addition, for qualified installations, Kemper System Authorized Applicators are eligible to apply for watertightness warranties issued by Kemper System that provide for repair at no charge to address covered leaking conditions due to defects in products or installation workmanship. Standard warranty duration is twenty (20) years.

## TECHNICAL AND SALES SUPPORT

Kemper System, Inc. sales and technical representatives are available to support the proper specification and application of Kemper System, Inc. products to ensure a long and successful performance life.

Services provided include: on-site evaluations; specification assistance; jobstart, interim and final completion inspections.

For further assistance call our Service Center at 1-800-541-5455, or visit our website at [www.kempersystem.net](http://www.kempersystem.net).

## MANUFACTURER

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