

KEMPEROL 2K-PUR MEMBRANE SYSTEM FOR ROOFING

BASIC USE

The KEMPEROL® 2K-PUR membrane system is intended for use in roofing applications where absence of odor during 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 2K-PUR roofing system is a fully reinforced, cold fluid-applied membrane system.

The Kemperol 2K-PUR system is based primarily upon advanced polyurethane, epoxy, and acrylic technology. Depending on the substrate, the primer component of the system is either a two-component epoxy or urethane, or single-component acrylic. The membrane and flashing resin components of the system are two-component urethane. Depending on application, a two-component epoxy surfacing is applied as an optional alkalinity resistant surfacing. A decorative urethane finish can also be applied as either a smooth color coating or a textured aggregate surfacing.

The Kemperol 2K-PUR system includes the following components:

- Kempertec EP, D, or BSF-R Primer
- Kemperol 2K-PUR Resin with Kemperol 165 Polyester Fleece Reinforcement
- Kempertec EP Alkalinity Surfacing (Optional)
- Kemperdur DEKO 2KS-FR Finish, ECO Finish, or BSF-R Finish (Optional)

The Kemperol 2K-PUR membrane system components average under 10 g/l VOC and are not solvent-based.

TECHNICAL ADVANTAGE

The Kemperol 2K-PUR odor-free system is suitable for exterior applications where absence of odor during application is critical.

The Kemperol 2K-PUR 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 2K-PUR 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.

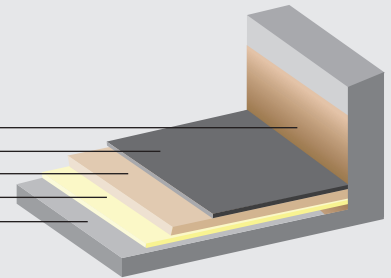
The Kemperol 2K-PUR system bonds directly to the substrate, eliminating the possibility of water moving laterally beneath the roofing membrane. The system eliminates seams, pitch pockets, metal sleeves and termination bars, which are the locations where most leakage occurs.

Kemperol 2K-PUR 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 2K-PUR system can be used to transition from one material to another without need of intermediate separation flashings.

TYPICAL ASSEMBLIES

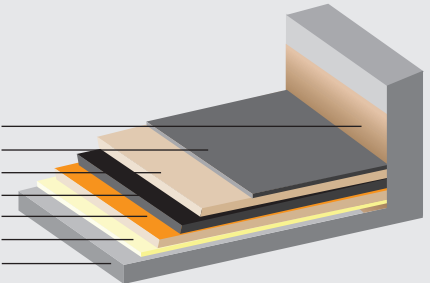
STANDARD ROOFING ASSEMBLY

KEMPEROL 2K-PUR FLASHING
 KEMPERDUR FINISH (OPTIONAL)
 KEMPEROL 2K-PUR MEMBRANE
 KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
 APPROVED DECK/EXISTING ROOF ASSEMBLY



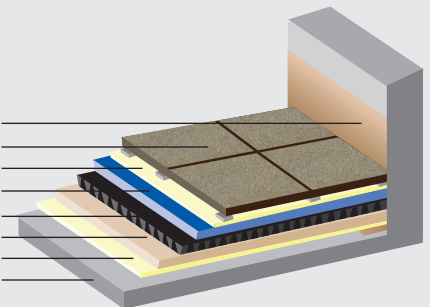
INSULATED ROOFING ASSEMBLY

KEMPEROL 2K-PUR FLASHING
 KEMPERDUR FINISH (OPTIONAL)
 KEMPEROL 2K-PUR MEMBRANE
 APPROVED COVER BOARD
 APPROVED ISOCYANURATE FOAM INSULATION
 KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
 APPROVED DECK



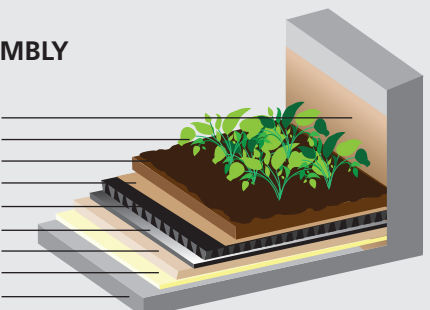
IRMA ROOFING ASSEMBLY

KEMPEROL 2K-PUR FLASHING
 STONE OR PRECAST CONCRETE PAVERS WITH PEDESTALS
 FILTER FABRIC (TYPICAL)
 EXTRUDED POLYSTYRENE INSULATION
 DRAINAGE BOARD (OPTIONAL)
 KEMPEROL 2K-PUR MEMBRANE
 KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
 APPROVED DECK



GREEN/LANDSCAPED ROOFING ASSEMBLY

KEMPEROL 2K-PUR FLASHING
 PLANTINGS
 SOIL/GROWING MEDIA
 FILTER FABRIC
 DRAINAGE BOARD
 WATER RETAINAGE MAT
 KEMPEROL 2K-PUR MEMBRANE
 KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
 APPROVED DECK



Kemperol 2K-PUR is root and rot resistant, and resists degradation by most oils, grease, and other common chemical substances. In addition, Kemperol 2K-PUR is unaffected by 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 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:** For insulated assemblies, install approved isocyanurate foam insulation/cover board to the structural deck, either with urethane foam adhesive or mechanical fasteners.
- **Primer:** Apply Kempertec EP epoxy-based primer to concrete and masonry substrates. Apply Kempertec D urethane-based primer to metal and wood substrates. Apply Kempertec BSF-R acrylic-based primer to coated-glass faced isocyanurate insulation. Allow to fully cure.

- **Membrane:** Install Kemperol 2K-PUR membrane and flashing system to primed surfaces. All moving cracks and joints between plywood, insulation and cover boards are to be reinforced with an initial strip of Kemperol 2K-PUR membrane prior to application of the full system.

- **Surfacing:** For all applications where concrete or other cementitious overburden is to be installed, apply Kempertec EP 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 DEKO 2KS-FR, Kemperdur ECO or BSF-R Finish.

- **Overburden:** For IRMA and green/landscaped assemblies, install extruded polystyrene insulation, drainage board, 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.

MANUFACTURER

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