

KEMPEROL 2K-PUR MEMBRANE SINGLE-SOURCE PLAZA DECK/IRMA ROOFING ASSEMBLY

BASIC USE

The KEMPEROL® 2K-PUR Single-Source Plaza Deck/IRMA roofing assembly consists of high-quality, fully compatible materials that have been specifically selected to provide exceptional performance as an integrated system.

The assembly is based upon the Kemperol 2K-PUR roofing membrane, the industry-standard membrane for use in roofing applications where absence of odor during application is of paramount importance.

This single-source assembly provides the Building Owner and Specifier with the assurance that their plaza deck or inverted roof membrane assembly is fully approved and warranted by Kemper System, Inc. (KSI)

PRODUCT DESCRIPTION

The Kemperol 2K-PUR roofing system itself is a fully reinforced, cold fluid-applied membrane system.

The Kemperol 2K-PUR system is based primarily upon advanced polyurethane and epoxy technology. Depending on the substrate, the primer component of the system is either a two-component epoxy or urethane. 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 or D 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 for Flashings)

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

The single-source assembly also includes, as appropriate for the specific application, the following additional KSI-APPROVED components installed above the 2K-PUR membrane system:

- Drainage Board
- Asphaltic Protection Board
- Extruded Polystyrene Foam Insulation
- Filtering Fabric

- Concrete Pavers
- Pedestal Stands
- Sand or Asphaltic Sand Setting Bed

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

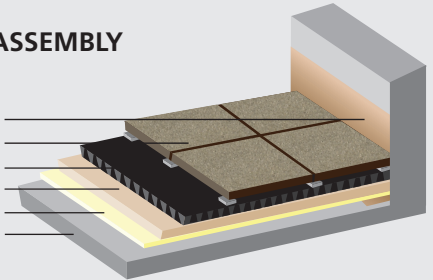
durable, reliable, and long-lasting, and has a combination of physical properties that makes it ideal for an exceptionally wide range of applications.

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

TYPICAL ASSEMBLIES

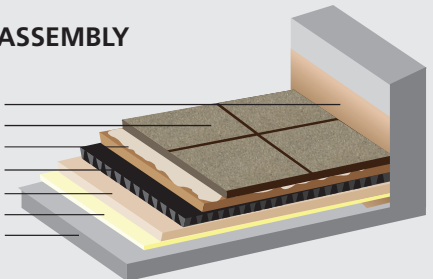
PLAZA DECK PAVER AND PEDESTAL ASSEMBLY

- KEMPEROL 2K-PUR FLASHING
- CONCRETE PAVERS ON PEDESTALS
- DRAINAGE MAT (OPTIONAL)
- KEMPEROL 2K-PUR MEMBRANE
- KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
- APPROVED DECK



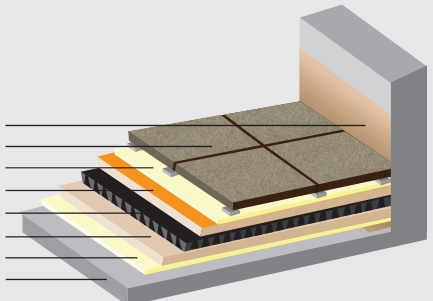
PLAZA DECK PAVER AND SAND BED ASSEMBLY

- KEMPEROL 2K-PUR FLASHING
- CONCRETE PAVERS
- SAND OR ASPHALTIC SAND SETTING BED
- DRAINAGE MAT (OPTIONAL)
- KEMPEROL 2K-PUR MEMBRANE
- KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
- APPROVED DECK



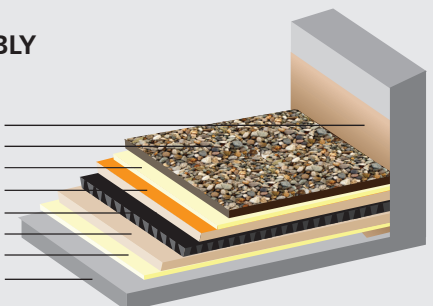
IRMA WITH PAVER ASSEMBLY

- KEMPEROL 2K-PUR FLASHING
- CONCRETE PAVERS ON PEDESTALS
- FILTERING FABRIC (OPTIONAL)
- EXTRUDED POLYSTYRENE INSULATION
- DRAINAGE MAT
- KEMPEROL 2K-PUR MEMBRANE
- KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
- APPROVED DECK



IRMA WITH STONE BALLAST ASSEMBLY

- KEMPEROL 2K-PUR FLASHING
- STONE BALLAST
- FILTERING FABRIC
- EXTRUDED POLYSTYRENE INSULATION
- DRAINAGE MAT
- KEMPEROL 2K-PUR MEMBRANE
- KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
- APPROVED DECK



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.

Kemperol 2K-PUR is resistant to UV exposure; a separate UV-resistant protection layer is not required prior to overburden installation. 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.

In addition, KSI-APPROVED components have been specifically selected to provide exceptional performance within the plaza deck or IRMA assembly so that the entire assembly will be virtually problem and maintenance-free for the life of the assembly.

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.

- **Primer:** Apply Kempertec EP epoxy-based primer to concrete and masonry substrates. Apply Kempertec D urethane-based primer to metal and wood substrates. Allow to fully cure.

- **Membrane:** Install Kemperol 2K-PUR membrane and flashing system to primed surfaces. All moving cracks 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 flashing applications where a colored coating or aggregated surfacing is desired, apply Kemperdur DEKO 2KS-FR, Kemperdur ECO or BSF-R Finish.

- **Overburden:** As required by specific assembly, install drainage board, extruded polystyrene insulation, filtering fabric, sand or asphaltic sand setting bed, paver pedestals, concrete pavers, stone ballast, 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.

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