

KEMPEROL 2K-PUR MEMBRANE SYSTEM FOR WATERPROOFING

BASIC USE

The KEMPEROL® 2K-PUR membrane system is intended for use in waterproofing applications where absence of odor during application is of paramount importance.

Typical applications include: plaza decks, fountains and other water features, below-grade, between-slab, through-wall flashing, masonry restoration, secondary containment, and many other related uses.

PRODUCT DESCRIPTION

The Kemperol 2K-PUR waterproofing system is a fully reinforced, cold fluid-applied membrane system. It can be installed either as a complete edge-to-edge Kemperol membrane system, or in discrete locations to address localized conditions.

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 or adhesion key 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/Adhesion Key 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 both exterior and interior 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 waterproofing systems, the Kemperol 2K-PUR system incorporates flashings that are made of the same materials as the waterproofing 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

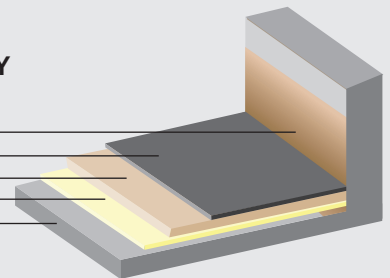
waterproofing membrane. The system eliminates seams, pitch pockets, metal flashings and termination bars - the locations where most leakage occurs.

The Kemperol 2K-PUR system adheres 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

TYPICAL ASSEMBLIES

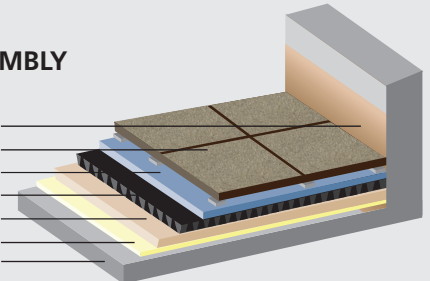
STANDARD WATERPROOFING ASSEMBLY

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



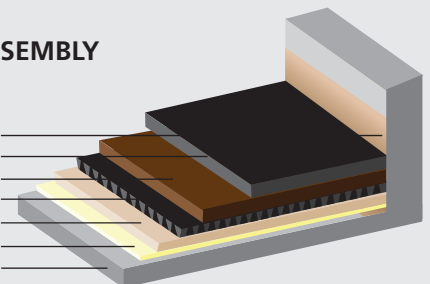
PLAZA DECK WATERPROOFING ASSEMBLY

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



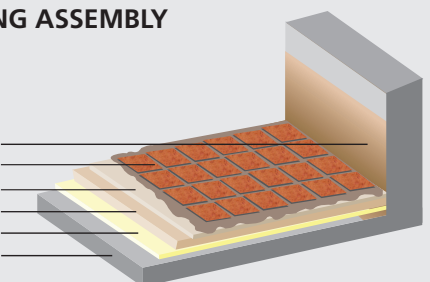
BELOW-GRADE WATERPROOFING ASSEMBLY

KEMPEROL 2K-PUR FLASHING
 HARDSCAPE (OPTIONAL)
 SOIL/GRAVEL FILL (TYPICAL)
 DRAINAGE BOARD (OPTIONAL)
 KEMPEROL 2K-PUR MEMBRANE
 KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
 APPROVED DECK



SOLID OVERBURDEN WATERPROOFING ASSEMBLY

KEMPEROL 2K-PUR FLASHING
 CONCRETE/TILE/PAVEMENT (TYPICAL)
 KEMPERTEC EP PRIMER W/SAND
 KEMPEROL 2K-PUR MEMBRANE
 KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
 APPROVED DECK



board, and rigid PVC. Because of its exceptional adhesion and flexibility, the Kemperol 2K-PUR system can be used to transition from one type of material to another without need of intermediate separation flashings.

The Kemperol 2K-PUR system is resistant to UV exposure without need of a separate protection layer. The Kemperol 2K-PUR system is root and rot resistant, and resists degradation by most oils, grease, and other common chemical substances. In addition, the Kemperol 2K-PUR system 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 2K-PUR 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.

- **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, and for all applications where an adhered overburden is to be applied, (e.g. concrete, tile, stucco, asphalt pavement, etc.), 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.

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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