

## KEMPEROL BR/BR-M MEMBRANE SYSTEM FOR WATERPROOFING

### BASIC USE

The KEMPEROL® BR/BR-M membrane system is intended for use in waterproofing applications where the ultimate in proven system performance 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 BR/BR-M 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 BR material is provided in large units of separate liquid component A and B, and is more suitable for large-scale applications. The Kemperol BR-M material is provided in smaller units of pre-blended liquid component A and B, and is more suitable for small-scale applications. Chemically, the materials are identical.

The Kemperol BR/BR-M system is based primarily upon a combination of advanced polyester, polyurethane, epoxy and methyl methacrylate 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 one or two liquid-component polyester with a powdered catalyst. Depending on application, a two-component methyl methacrylate surfacing is applied as an optional alkalinity resistant or adhesion key surfacing. A decorative urethane or methyl methacrylate finish can also be applied as either a smooth color coating or a textured aggregate surfacing.

The Kemperol BR/BR-M system includes the following components:

- Kempertec EP or D Primer
- Kemperol BR/BR-M Resin with Kemperol 165 Polyester Fleece Reinforcement
- Kempertec AC Alkalinity/Adhesion Key Surfacing (Optional)
- Kemperdur DEKO 2KS-FR Finish, or AC Finish (Optional)

The Kemperol BR/BR-M membrane system components average under 25 g/l VOC and are not solvent-based.

### TECHNICAL ADVANTAGE

The Kemperol BR/BR-M system is suitable for exterior applications where proven system longevity is critical.

The Kemperol BR/BR-M 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.

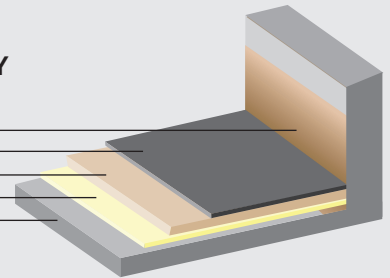
Unlike many other waterproofing systems, the Kemperol BR/BR-M system incorporates flashings that are made of the same materials as the waterproofing membrane itself, essentially creating a seamless, self-terminating monolithic membrane that readily adapts to the contours of the substrate.

The Kemperol BR/BR-M system bonds directly to the substrate, eliminating the possibility of water moving laterally beneath

### TYPICAL ASSEMBLIES

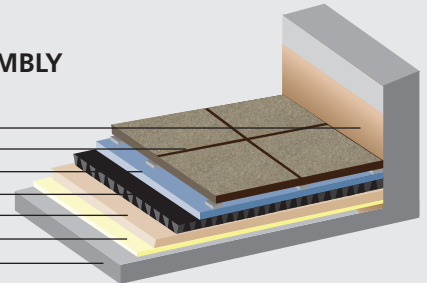
#### STANDARD WATERPROOFING ASSEMBLY

KEMPEROL BR/BR-M FLASHING  
KEMPERDUR DEKO OR ECO FINISH (OPTIONAL)  
KEMPEROL BR/BR-M MEMBRANE  
KEMPERTEC PRIMER APPROVED FOR SUBSTRATE  
APPROVED DECK



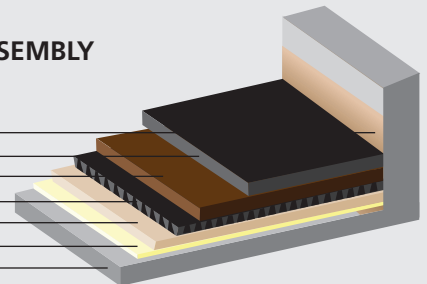
#### PLAZA DECK WATERPROOFING ASSEMBLY

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



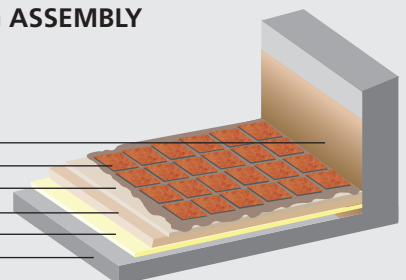
#### BELOW-GRADE WATERPROOFING ASSEMBLY

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



#### SOLID OVERBURDEN WATERPROOFING ASSEMBLY

KEMPEROL BR/BR-M FLASHING  
CONCRETE/TILE/PAVEMENT (TYPICAL)  
KEMPERTEC AC PRIMER W/SAND  
KEMPEROL BR/BR-M MEMBRANE  
KEMPERTEC PRIMER APPROVED FOR SUBSTRATE  
APPROVED DECK



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

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

The Kemperol BR/BR-M system is resistant to UV exposure without need of a separate protection layer. The Kemperol BR/BR-M system is root and rot resistant, and resists degradation by most oils, grease, and other common chemical substances. In addition, the Kemperol BR/BR-M 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 BR/BR-M 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 BR/BR-M membrane and flashing system to primed surfaces. All moving cracks are to be reinforced with an initial strip of Kemperol BR/BR-M 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 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 DEKO 2KS-FR or Kemperdur AC 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](http://www.kempersystem.net).

## MANUFACTURER

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