

Application - Material Data Sheet

KEMPEROL V210M/BRM MEMBRANE WATERPROOFING SYSTEM

BASIC USE

The KEMPEROL® V210/BRM, Polyester 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, water features, below-grade, secondary containment, and many other related uses.

PRODUCT DESCRIPTION

The Kemperol V210M/BRM waterproofing system is a fully reinforced, cold liquid-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 V210M/BRM system is based primarily upon a combination of advanced polyester, polyurethane, epoxy and polymethyl methacrylate (PMMA) 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 catalyst powder.

Depending on application, a two-component PMMA surfacing is applied when an alkalinity resistant or adhesion key surfacing is required.

The Kemperol V210M/BRM system includes the following components:

- Kempertec EP, EP5 D or R Primer
- Kemperol V210M/BRM Resin with Kemperol 165 Polyester Fleece Reinforcement
- Kempertec AC Alkalinity/Adhesion Key Surfacing (If Required)

The Kemperol V210M/BRM membrane system components average under 25 g/l VOC and are not solvent-based.

TECHNICAL ADVANTAGE

The Kemperol V210M/BRM system is suitable for exterior applications where proven system longevity is critical.

The Kemperol V210M/BRM 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 V210M/BRM 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 V210M/BRM system bonds directly to the substrate, eliminating the possibility of water moving laterally beneath

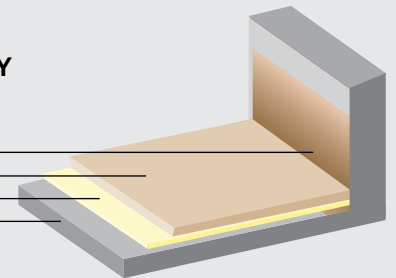
the waterproofing membrane. The system eliminates seams, pitch pockets, metal flashings and termination bars - the locations where most leakage occurs.

The Kemperol V210M/BRM 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.

TYPICAL ASSEMBLIES

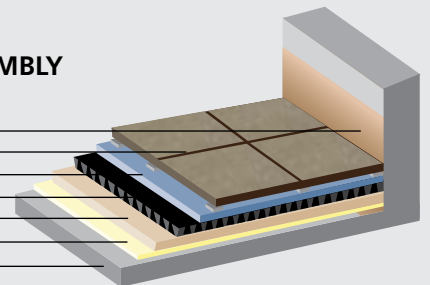
STANDARD WATERPROOFING ASSEMBLY

KEMPEROL V210M/BRM FLASHING
KEMPEROL V210M/BRM MEMBRANE
KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
APPROVED DECK



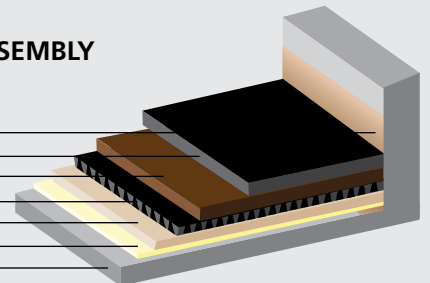
PLAZA DECK WATERPROOFING ASSEMBLY

KEMPEROL V210M/BRM FLASHING
PRECAST CONCRETE PAVERS WITH PEDESTALS (TYPICAL)
EXTRUDED POLYSTYRENE INSULATION (OPTIONAL)
DRAINAGE BOARD (OPTIONAL)
KEMPEROL V210M/BRM MEMBRANE
KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
APPROVED DECK



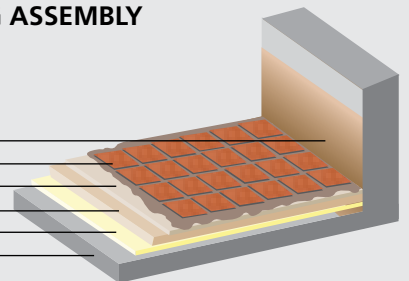
BELOW-GRADE WATERPROOFING ASSEMBLY

KEMPEROL V210M/BRM FLASHING
HARDSCAPE (OPTIONAL)
SOIL/GRAVEL FILL (TYPICAL)
DRAINAGE BOARD (OPTIONAL)
KEMPEROL V210M/BRM MEMBRANE
KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
APPROVED DECK



SOLID OVERBURDEN WATERPROOFING ASSEMBLY

KEMPEROL V210M/BRM FLASHING
CONCRETE/TILE/PAVEMENT (TYPICAL)
KEMPERTEC AC PRIMER W/SAND
KEMPEROL V210M/BRM MEMBRANE
KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
APPROVED DECK



Because of its exceptional adhesion and flexibility, the Kemperol V210M/BRM system can be used to transition from one type of material to another without need of intermediate separation flashings.

The Kemperol V210M/BRM system is resistant to UV exposure without need of a separate protection layer. The Kemperol V210M/BRM system is root and rot resistant, and resists degradation by most oils, grease, and other common chemical substances. In addition, the Kemperol V210M/BRM 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 V210M/BRM 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/EP5 epoxy-based primer to concrete and masonry substrates. Apply Kempertec D/R urethane-based primer to metal and wood substrates. Allow to fully cure.

- **Membrane:** Install Kemperol V210M/BRM membrane and flashing system to primed surfaces. All moving cracks are to be reinforced with an initial strip of Kemperol V210M/BRM 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.

All Kemper System America, Inc. (KSA) products are intended for PROFESSIONAL USE ONLY.

WARRANTY INFORMATION

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

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

In addition, for qualified installations, Kemper System Approved Applicators are eligible to apply for (NDL) watertightness warranties issued by Kemper System that provide repair for leaking conditions through the Kemperol system due to defects in products or installation workmanship. Projects must be registered, approved and inspected by the Technical Department prior to commencement of work. Typical warranty duration is twenty (20) years.

TECHNICAL AND SALES SUPPORT

KSA sales and technical representatives are available to support the proper specification and application of KSA 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 1-800-541-5455, or visit our website at www.kempersystem.net.

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