

KEMPEROL BR/BR-M/V210/V210-M MEMBRANE SYSTEM FOR ROOFING

BASIC USE

The KEMPEROL® BR/BR-M/V210/V210-M membrane system is intended for use in roofing applications where the ultimate in proven system performance 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 BR/BR-M/V210/V210-M roofing system is a fully reinforced, cold fluid-applied membrane system.

The Kemperol BR/BR-M membrane is an amber, translucent color, and is suitable for applications where a coating over overburden will be applied. The Kemperol V210/V210-M membrane is a gray, opaque color, and is suitable for applications where the roofing membrane will be left exposed.

The Kemperol BR/V210 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/V210-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/V210/V210-M system is based primarily upon a combination of advanced polyester, polyurethane, epoxy, acrylic and methyl methacrylate technology. Depending on the substrate, the primer component of the system is either a two-component epoxy, urethane, or single-component acrylic. The membrane and flashing resin components of the system are one or two liquid-component polyester with a powdered catalyst. Depending on application, a methyl methacrylate surfacing is applied as an optional alkalinity resistant 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/V210/V210-M system includes the following components:

- Kempertec EP, AC, D, or BSF-R Primer
- Kemperol BR/BR-M/V210/V210-M Resin with Kemperol 165 Polyester Fleece Reinforcement
- Kempertec AC Alkalinity Surfacing (Optional)
- Kemperdur DEKO 2KS-FR Finish, or AC Finish (Optional)

The Kemperol BR/BR-M/V210/V210-M membrane system components average under 25 g/l VOC and, other than an optional urethane finish, are not solvent-based.

TECHNICAL ADVANTAGE

The Kemperol BR/BR-M/V210/V210-M system is suitable for exterior applications where proven system longevity is critical.

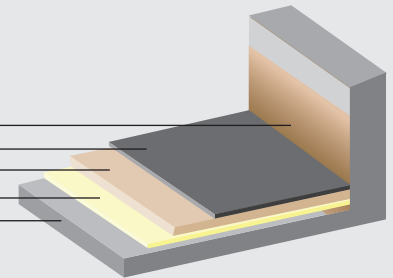
The Kemperol BR/BR-M/V210/V210-M system is exceptionally durable, reliable, and long-lasting, and has a combination of physical properties that makes it ideal for an exceptionally wide range of applications.

Unlike many other roofing systems, the Kemperol BR/BR-M/V210/V210-M system incorporates flashings that are made of the same materials as the roofing membrane itself, essentially creating a seamless, self-terminating

TYPICAL ASSEMBLIES

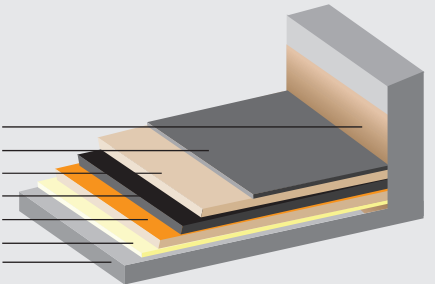
STANDARD ROOFING ASSEMBLY

KEMPEROL BR/BR-M/V210/V210-M FLASHING
KEMPERDUR FINISH (OPTIONAL)
KEMPEROL BR/BR-M/V210/V210-M MEMBRANE
KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
APPROVED DECK/EXISTING ROOF ASSEMBLY



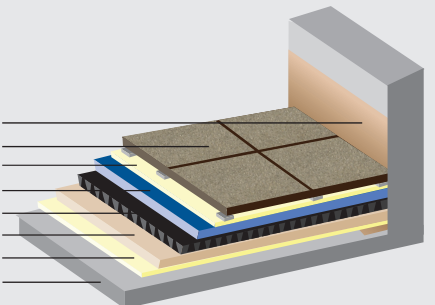
INSULATED ROOFING ASSEMBLY

KEMPEROL BR/BR-M/V210/V210-M FLASHING
KEMPERDUR FINISH (OPTIONAL)
KEMPEROL BR/BR-M/V210/V210-M MEMBRANE
APPROVED COVER BOARD
APPROVED ISOCYANURATE FOAM INSULATION
KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
APPROVED DECK



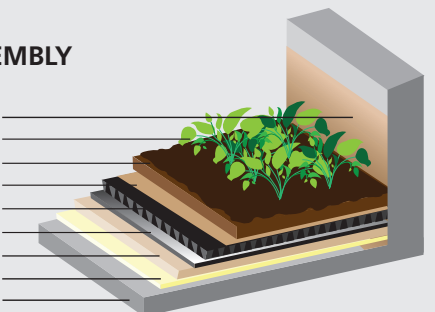
IRMA ROOFING ASSEMBLY

KEMPEROL BR/BR-M/V210/V210-M FLASHING
STONE OR PRECAST CONCRETE PAVERS WITH PEDESTALS
FILTER FABRIC (TYPICAL)
EXTRUDED POLYSTYRENE INSULATION
DRAINAGE BOARD (OPTIONAL)
KEMPEROL BR/BR-M/V210/V210-M MEMBRANE
KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
APPROVED DECK



GREEN/LANDSCAPED ROOFING ASSEMBLY

KEMPEROL BR/BR-M/V210/V210-M FLASHING
PLANTINGS
SOIL/GROWING MEDIA
FILTER FABRIC
DRAINAGE BOARD
WATER RETAINAGE MAT
KEMPEROL BR/BR-M/V210/V210-M MEMBRANE
KEMPERTEC PRIMER APPROVED FOR SUBSTRATE
APPROVED DECK



monolithic membrane that readily adapts to the contours of the substrate.

The Kemperol BR/BR-M/V210/V210-M 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 BR/BR-M/V210/V210-M 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 BR/BR-M/V210/V210-M system can be used to transition from one material to another without need of intermediate separation flashings.

Kemperol BR/BR-M/V210/V210-M is resistant to UV exposure without need of a separate protection layer. Kemperol BR/BR-M/V210/V210-M is root and rot resistant, and resists degradation by most oils, grease, and other common chemical substances. In addition, Kemperol BR/BR-M/V210/V210-M 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 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.

- **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 or AC methyl methacrylate-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 BR/BR-M/V210/V210-M membrane and flashing system to primed surfaces. All moving cracks are to be reinforced with an initial strip of Kemperol BR/BR-M/V210/V210-M membrane prior to application of the full system.
 - **Surfacing:** For all applications where concrete or other cementitious overburden is to be installed, 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.
 - **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.

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