

KEMPERDUR TC SYSTEM FOR TRAFFIC SURFACING

BASIC USE

The KEMPERDUR® TC surfacing system is intended for use as an odor-free waterproofing and surfacing system for vehicular and pedestrian applications where absence of odor during application is of paramount importance.

PRODUCT DESCRIPTION

The Kemperdur TC system combines a heavy-duty, impact and abrasion-resistant aggregated surfacing system with a Kemperol reinforced fluid-applied flashing system, or a complete edge-to-edge Kemperol reinforced fluid-applied membrane and flashing system, to provide a unique combination of waterproofing and traffic-resistant surfacing over concrete substrates.

The Kemperdur TC system is based primarily upon advanced polyurethane and epoxy technology. The primer component of the system is a two-component epoxy, and the membrane and surfacing resin components of the system are two-component urethane. Depending on application, the finish sealcoat is either a water-borne urethane, or a two-component epoxy.

The Kemperdur TC system includes the following components:

- Kempertec EP Primer
- Kemperol 2K-PUR Resin with Kemperol 165 Polyester Fleece Reinforcement
- Kemperol TC Resin with Aggregate
- Kemperdur EP-FR Finish, AC Finish, or ECO Finish

The Kemperdur TC system components average under 25 g/l VOC and are not solvent-based.

TECHNICAL ADVANTAGE

The Kemperdur TC odor-free system is suitable for both exterior and interior applications where absence of odor during application is critical.

Unlike typical traffic coating systems, the Kemperdur TC system incorporates a 70 mil thick waterproofing membrane/flashing at all critical areas. A complete edge-to-edge membrane and flashing system is used for exposed applications over occupied space, such as the top level of a parking garage or a terrace area. A flashing-only system is used for protected applications or applications over unoccupied space, such as intermediate levels of a parking garage or an overhanging balcony.

In addition, the Kemperdur TC system

incorporates a self-leveling resin that is reinforced with a graded mineral filler to create a very hard and durable high-build surfacing layer that also serves to bond the broadcasted surfacing aggregate, resulting in a typical finished surfacing thickness of 100 mils.

Vehicular traffic systems incorporate a broadcast of kiln-dried quartz aggregate or other crush-resistant aggregate with a sealcoat application of colored Kemperdur EP-FR or

Kemperdur AC FINISH in either light gray or charcoal for enhanced wear resistance.

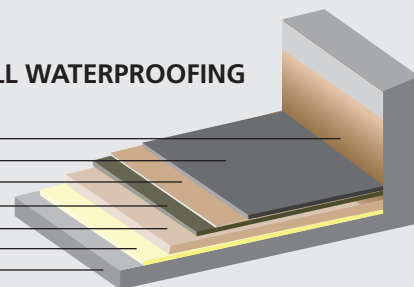
Pedestrian traffic systems incorporate color blended ceramic quartz aggregate with a sealcoat application of transparent Kemperdur ECO finish to achieve a balanced combination of wear resistance and aesthetics. Ten standard aggregate color blends are available.

FM, UL, and other code approvals are available for specific assemblies and installations.

TYPICAL ASSEMBLIES

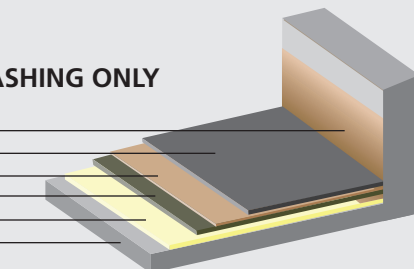
VEHICULAR TRAFFIC ASSEMBLY – FULL WATERPROOFING

KEMPEROL 2K-PUR FLASHING
KEMPERDUR FINISH COLORED
AGGREGATE
KEMPERDUR TC SURFACING
KEMPEROL 2K-PUR MEMBRANE
KEMPERTEC EP PRIMER
CONCRETE DECK



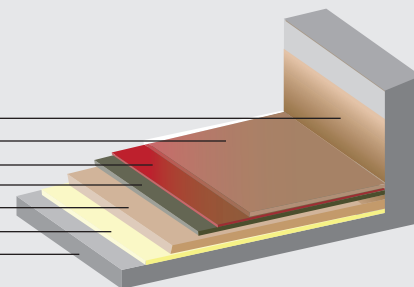
VEHICULAR TRAFFIC ASSEMBLY – FLASHING ONLY

KEMPEROL 2K-PUR FLASHING
KEMPERDUR FINISH COLORED
AGGREGATE
KEMPERDUR TC SURFACING
KEMPERTEC EP PRIMER
CONCRETE DECK



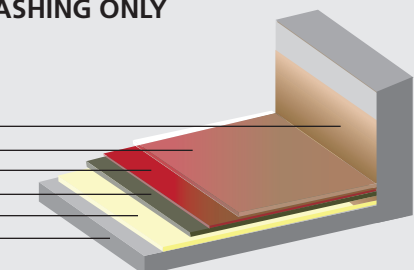
PEDESTRIAN TRAFFIC ASSEMBLY – FULL WATERPROOFING

KEMPEROL 2K-PUR FLASHING
KEMPERDUR FINISH TRANSPARENT
AGGREGATE BLEND
KEMPERDUR TC SURFACING
KEMPEROL 2K-PUR MEMBRANE
KEMPERTEC EP PRIMER
CONCRETE DECK



PEDESTRIAN TRAFFIC ASSEMBLY - FLASHING ONLY

KEMPEROL 2K-PUR FLASHING
KEMPERDUR FINISH TRANSPARENT
AGGREGATE BLEND
KEMPERDUR TC SURFACING
KEMPERTEC EP PRIMER
CONCRETE DECK



INSTALLATION OUTLINE

REFER TO THE KEMPEROL TECHNICAL MANUAL FOR COMPLETE INSTALLATION INFORMATION.

- **Substrate Preparation:** Ensure that the concrete substrate is clean and dry. Remove all contaminants and existing coatings from all surfaces to allow proper adhesion of the Kemperdur 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 primer to the concrete substrate and all flashing surfaces at the perimeter, penetrations, expansion joints, and drain locations.
- **Membrane:** Install Kemperol 2K-PUR membrane and flashings as required for application type. All moving cracks are to be reinforced with an initial strip of Kemperol 2K-PUR membrane.
- **Surfacing:** Apply Kemperdur TC surfacing over the entire area and allow to self-level. Broadcast the selected aggregate into the wet surfacing resin so as to fully cover the surface.

- **Sealing:** Remove all loose aggregate from the applied surfacing. Apply selected colored or transparent Kemperdur EP-FR, Kemperdur AC, OR Kemperdur ECO finish to seal the aggregate surfacing.

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/surfacing performance 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, and separation of surfacing from the membrane/substrate. Standard warranty duration is ten (10) 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.

MANUFACTURER

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