Product Information



KEMPERDUR® TC Traffic Coating

Work pack includes: Component A: White Formulation, Component B: Dark Brown Formulation, Component C: Mineral Filler

Product Description	KEMPERDUR® TC Traffic Coating is a high performance, self-levelling, mineral-filled topcoat system for use with mineral aggregates to provide a heavy-duty traction-enhanced surfacing. Concrete Substrate applications only.		
Composition & Materials	KEMPERDUR® TC Traffic Coating is a solvent-free, three component, cold-applied liquid aromatic polyurethane coating consisting of Component A, the resin, Component B, the curing agent, and Component C, the mineral filler.		
	Mineral aggregate of a type selected for the intended application are broadcast into the surfacing mixture to excess while semi-cured, becoming an integral part of the KEMPERDUR® TC Traffic Coating.		
Use	KEMPERDUR® TC Traffic Coating is used as a heavy-duty fire-resistant topcoat over unsurfaced KEMPEROL® cold fluid-applied reinforced polyurethane membrane systems.		
	Alternatively, KEMPERDUR® TC Traffic Coating is used as a heavy-duty pedestrian and light-duty traf- fic surfacing system for concrete substrates where a full waterproofing system is not required, such as balconies, terraces, and private parking decks that are not located over finished, occupied space. In this application, KEMPEROL® waterproofing membrane is installed only at perimeter and penetration flashing locations.		
Limitations	KEMPERDUR® TC Traffic Coating may be applied only when the ambient temperature is 41 °F (5 °C) and rising, and the substrate temperature is a minimum of 5 degrees above the dew point.		
	KEMPERDUR® TC Traffic Coating is intended for application on horizontal surfaces and inclines of up to 10%.		
Yield	45 sq. ft. (4.2 m ²) per 12.5 kg Workpack		
	Note: All yields are approximate and may vary depending upon smoothness and absorbency of substrate.		
Storage	Always store in cool and dry location. Do not store in direct sunlight or in temperatures below 40 °F (5 °C) or above 80 °F (27 °C). Approximate shelf life 12 months in sealed original containers.		
	For best use, 24 hours before application, the material is to be acclimated at temperatures be- tween 65-70 °F (18-21 °C).		
Precautions	Refer to KEMPEROL [®] Material Safety Data Sheet (MSDS) before using or handling.		
Surface Preparation	All surfaces must be free from gross irregularities, loose, unsound or foreign material such as dirt, ice, water, grease, oil, release agents, lacquers, or any other condition that would be detrimental to adhesion of the primer and surfacing.		
	Remove or grind down all fasteners, anchors, studs, or other protrusions to achieve a smooth surface.		
	Seal all openings in the substrate with urethane sealant, either caulking grade or low-rise foam, to prevent primer and coating from dripping through the substrate, as well as to avoid excess material usage.		
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	Component Properties						
		Property	Component A Resin	Component B Curing Agent	Component C Mineral Filler		
		Color	White	Dark Brown	White	-	
		Physical state	Liquid	Liquid	Granular		
		Specific density	1.25	1.24	-		
		Viscosity	800 mPas	-	N/A		
		Flash point	212°F (100°C)	356°F (180°C)	N/A		
	Surfacing Properties						
	Concrete surf	faces require ab	prasion to achieve	Physical Prop	erty	Values	
	a roughened	a roughened surface.		Standard Color		Beige	
	Duana ya fila ah:			Physical state		Cures to solid	
	for standard		g substrate surraces as required		1	120 mils (3mm) with aggregate	
	for standard i	Tor standard KEIVIPEROL [®] membrane application.		· VOC Content		6 g/l	
				Usage time*		15 minutes	
Priming & Surface	Applications d	Applications directly to KEMPEROL [®] waterproofing membranes do not require		Water resistant after*		4 hours	
Repair	waterproofing			Solid to walk on after*		4 hours	
	priming.	priming.			ned after*	8 hours	
	For concrete s	ubstrates, depe	nding on the	Water vapor trans	mission	< 1 % 0.001 perms	
	substrate cond	dition. KEMPERT	FEC [®] EP Primer is				
	either brush/ro	oller-applied as a	a 100% liquid	A values obtained at 7. depending upon air	flow, humidity and temp	ity, may vary perature.	
	primer, or is so	queegee-applied	as a field-mixed				
	slurry consistir	ng of one part E	P Primer and one pa	rt kiln-dried sand (.6575 mm) by	volume.	
	All cracks, holes, spalls, and other surface defects can typically be sealed/repaired with a field-mix mortar consisting of one part EP Primer and 3-4 parts kiln-dried sand (.6575 mm) by volume. substrate surface with 100% liquid primer before application of the repair mortar to improve the substrate surface.						
	Broadcast kiln-dried sand (.6575 mm) into the wet EP Primer KEMPERDUR® TC Traffic Coating and primer.				rder to improve th	he bond between the	
	Allow EP Prime time is depend cure time is ty	er to cure comp dent on the aml pically overnigh	letely prior to the ap pient temperature, b t, i.e., 12 hours.	plication of the KI ut for ambient ap	EMPERDUR® TC Ti plication tempera	raffic Coating. Primer cure tures of 50 °F or greater,	
Mixing of Coating	Note: Prior to opening the containers of KEMPERDUR® TC Traffic Coating, wear appropriate safety glasses of protect hands and wrists by wearing gauntlet-type neoprene gloves. Agitate coating in sealed contained prior to use.					opriate safety glasses and ting in sealed container	
	Step 1: Premix Component A (white formulation) with a spiral agitator to achieve a smooth consister throughout.						
	Step 2: Add C until the liquic	approximately 1 minute,					
	Step 3: Transfer liquid mixture to larger container. Gradually add Component C (white filler) to the mixing continues with a spiral agitator for an additional 1 minute until a smooth, lump free mix is provide to not exceed mixing times. Do not break down workpacks into smaller units, as an impropret to occur.					te filler) to the liquid while np free mix is produced.	
						as an improper mix is likely	
	Step 4: For ap additive shall b alladditive has consistency is	oplications to ran be added to the been dispersed achieved.	mps and other slope KEMPERDUR® TC Ti I into the mixture. Ad	d surfaces, up to 7 raffic Coating mixt djust the amount o	% by weight of I ure, mixing for ar of Thixotropic add	KEMPERTEC® Thixotropic n additional 1 minute until Jitive until the desired	
Surfacing Application	Step 1: Empty mixing bucket of KEMPERDUR [®] TC Traffic Coating mix onto the primed surface and spread with a 1/4"X 1/4" square - notched trowel to achieve the specified coverage rate.						
	Step 2: Allow range from 10	the KEMPERDU) - 20 minutes d	JR® TC Traffic Coatir lepending on ambie	ig to self-level and nt temperature.	begin to cure. Th	nis initial curing time will	

	 Step 3: Once material begins to retain a peak after being touched by a finger, immediately broadcast selected aggregate to excess into KEMPERDUR® TC Traffic Coating until a uniform dry aggregate layer has been achieved. Aggregate will initially sink into surfacing, requiring the application of additional aggregate. Sufficient aggregate application is achieved when there are no wet spots remaining. Aggregate application rate is typically 100 lbs. per 100 sq.ft. Step 4: Allow the aggregate-filled KEMPERDUR® TC Traffic Coating to cure for a minimum of 4 hours. A longer curing time may be required depending on ambient temperatures. Surfacing must be fully walkable without being damaged. Remove excess aggregate by brooming and vacuuming. For colored aggregate, apply KEMPERDUR® Eco Finish with a roller at the approximate rate of 0.8 gallons (3 L) per 100 square feet. For vehicular traffic apply KEMPERDUR® EP-FR Finish with a roller at the approximate rate of 0.8 gallons (3 L) per 100 square feet. Allow the Finish to cure overnight or until fully dry before resuming normal foot traffic
	Step 4a: (Optional) Apply second coat of sealer to reduce aggressiveness of aggregate finish and improve cleanability.
Cold Joints In Surfacing	Whenever practical, apply KEMPERDUR® TC Traffic Coating in one continuous application between defined terminations such as roof edges, parapet walls, building walls, and curbs. When a cold joint between two areas is required, the following method is recommended to minimize the appearance of the joint.
	Step 1: Tape off the edge of the cold joint location. Choose the joint location so that it appears to be in a natural location, such as in line with an outside corner, or following a row of penetrations, or creating application areas of equal size. Typical application area is 500 square feet.
	Step 2: Apply the KEMPERDUR® TC Traffic Coating to the edge of the tape. When the surfacing has begun to cure, broadcast aggregate to excess into the surfacing and onto the tape. Remove tape immediately following completion of the aggregate application, and allow joint area to fully cure.
	Step 3: To complete the cold joint, remove all loose aggregate from approximately 6" along the fully cured cold joint area. Carefully apply the KEMPERDUR® TC Traffic Coating, butting the liquid mixture up to the edge of the cured cold joint with a flexible trowel. Ensure that the edge of the cured cold joint is completely wetted with the liquid KEMPERDUR® TC Traffic Coating, with no skips or voids. When the surfacing has begun to cure, broadcast aggregate to excess into the surfacing and onto the cured cold joint surface.
Aggregate Recommendations For Balconies & Terraces	Note: Aggregate for pedestrian traffic is selected for comfort, traction enhancement, and appearance. Blends of at least two colors are recommended for best aesthetic appearance.
	- Estes Ceramaquartz S-Grade. (Kiln-dried silica sand with ceramic coating.) Ten Standard Colors, available.
Aggregate Recommendations For Vehicular Traffic Locations	Note: Aggregate for vehicular traffic is subjected to higher crushing and fracturing forces. The following ag- gregates provide additional crushing and fracturing resistance as compared to silica sand-based aggregates.
	- Garnet #16 or #36. Clay Red Color. - Aluminum Oxide #20 or #30. Brownish Black. - Silicon Carbide #20 or #30. Charcoal Black.
Disposal	Cured KEMPERDUR [®] TC Traffic Coating may be disposed of in standard landfills. This is accomplished by thor- oughly mixing all surfacing components together. Note: Uncured KEMPERDUR [®] TC Traffic Coating resin and hardener, primer components, and sealer are considered hazardous materials and must be handled as such, in accordance with local, state and federal regulations. Do not throw away uncured resin, hardener, primer or sealer.
Ordering Information	KEMPERDUR [®] TC Traffic Coating: Item #: Size: 325-77-125 12.5 kg Workpack Workpack contains Components A, B and C