Product Information



KEMPEROL® V210M

Work pack includes: Component A: Grey, Component B: Catalyst Powder

Product Description	KEMPEROL® V210M is a two-component including catalyst high performance seamless and self-ter- minating cold fluid-applied reinforced unsaturated polyester membrane system for exterior applications.
Composition & Materials	A monolithic membrane is created in the field by combining the KEMPEROL [®] V210M, cold- applied liquid polyester resin and catalyst powder with KEMPEROL [®] polyester reinforcing fleece. Membrane may be applied using standard fleece available in 4, 8, 10, 13, 20, 27, and 41-inch nominal widths.
Use	KEMPEROL [®] V210M membranes are suitable for a wide range of exterior waterproofing applications, in- cluding insulated roof assemblies, inverted roof assemblies, green roofs, and plazas.
Limitations	KEMPEROL [®] V210M may be applied only when the ambient temperature is 35 °F (2 °C) and rising, and the substrate temperature is a minimum of 5 °F above the dew point. The maximum applica- tion temperature is approximately 105 °F (40°C).
	Without additional protection, KEMPEROL [*] is not resistant to hydrocarbon solvents or alkalines greater than pH 10, which should be removed from the membrane immediately.
Yield	Using 165 Fleece: 33 s.f. (3.0 m ²) per 10 kg work pack; 66 s.f. (6.0 m ²) per 20 kg work pack Using 200 Fleece: 28 s.f. (2.6 m ²) per 10 kg work pack; 56 s.f. (5.2 m ²) per 20 kg work pack
	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 35 °F (1.7 °C) or above 80 °F (27 °C). Approximate shelf life 6 months with proper storage. Catalyst Powder must be stored separately.
	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, snow, water, grease, oil, release agents, lacquers, or any other condition that would be detrimental to adhesion of the primer and membrane. This requires careful preparation of existing horizontal and vertical substrates; cracks are filled, expansion joints are prepared, flashings are removed or modified, and termination points are determined. Substrates and penetrations are prepared to rigorous industry standards, and may require scarifying, sandblasting or grinding in some cases to achieve a suitable substrate.
Priming	After substrate preparation, temporary watertightness is quickly achieved with the application of KEMPERTEC [®] D Primer, EP Primer, or BSF-R Primer and temporary joint filler. Alternatively, the use of quick-dry KEMPERTEC [®] AC Primer, R Primer, or EP5 Primer may allow same-day membrane application. KEMPERTEC [®] primer may be brushed or rolled onto any clean and prepared surface.
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			Component Prop	erties			
		Property	Catalyst Powder	Liquid (Component		
		Color	White		Grey		
		Physical state	Granular	l	Liquid		
		Specific density	0.55		1.16		
		Viscosity	-		4000		
		Flash point->32 °C/90 °F					
		Membrane Properties					
	Phy	vsical Property	Test Meth	od	Typical Value		
	Colo		-		Gray		
		ical state	-		Cures to solid		
		kness (165 fleece/200 fleec content	e) ASTM D75	I	70 mils/80 mils		
		ile strength @ break	ASTM D75	1	42 g/l		
		gation	ASTM D75		90 lb./in 55%		
		ng resistance	ASTM D751 Elm		8.6 lbs		
		ture resistance	FTMS 101-20		150 lbf		
		ensional stability	ASTM D1204 6hrs		0.1%		
	Wate	er absorption	ASTM D471 72hrs	@158ºF	2.0%		
	Impa	act resistance	ASTM D224	0	Shore A:78		
	Wate	er vapor transmission	ASTM E96		0.27 Perms		
		e time*	-		15 minutes		
		er resistant after*			30 minutes		
		Solid to walk on after* _			6 hours		
		be driven on after*			24 hours		
		y overburden after*	-		2-3 days		
		pletely hardened*	-		3 days		
	Crac	k spanning	-		2 mm/0.08 inch		
	Shor	t-term temperature resista	nce -		250 °C / 482 °F		
ng of Resin	-	ng the containers of	KEMPEROL [®] V210M Re				
	light or dark streaks a weather-related a KEMPEROL® UP-A below 50 °F (10 °C), uids are thoroughly KEMPEROL® UP-I °C). The mixing inst	uid resin with a spiral present. If the ambie dditive should be con Cold Activator should The activator should blended. Inhibitor should be ructions are the same	untlet-type neoprene of KEMPEROL [®] agitator us ent temperature is below mbined and mixed with ould be added to the line be mixed with the spin added to the liquid re- e as the cold activator.	gloves. ntil the liq ow 50 °F (1 h the liqui quid resin ral agitato sin when t	uid is a uniform 10 °C) or above 7 id resin. when the ambior for 5 minutes of he temperature		
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	Step 3: Add the the remaining 1/3 of the resin to the top of the fleece and complete the saturation. Roll this final coating into the fleece, which will result in a glossy appearance. The fleece can only hold so much resin and all excess should be rolled forward to the unsaturated fleece. Any excess resin left on the top of the fleece will weather and peel off.					
	The correct amount of Resin will completely saturate the Fleece and no white color will be visible.					
Overbuden	KEMPEROL® V210M membrane must receive an alkalinity barrier before an application of a concrete overbur- den. The membrane must be allowed to fully cure, typically 2-3 days, prior to application of alkalinity protec- tion, consisting of Kempertec EP, EP5, or AC primers with Kiln-dried silica sand The surface of the membrane must first be prepared by means of pressure washing with a heavy duty, PH-neutral professional grade cleaner, scrubbing, and thoroughly rinsing to remove the paraffin film developed during the curing process and any other contaminants.					
Disposal	Cured V210M resin may be disposed of in standard landfills. This is accomplished by thoroughly mixing all components. Note: Uncured V210M resin is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations. Do not throw uncured resin away.					
Ordoning						
Ordering Information	20 Kg Workpack (Resin + Cat Powder) Item # 102-77-205					
intormation	ltem # Resin	Size:				
	102-77-201	19.4Kg / 4.42 US GAL (16.73L)				
	Catalyst Powder AKZO-77-252	600 g bag				
		5 5				
	10 Kg Workpack (Resin + Cat Powder) Item # 100-77-105					
	Resin 100-77-101	9.7Kg / 2.21 US GAL (8.37L)				
	Catalyst Powder	9.7 Kg / 2.2 T 03 GAE (0.37 L)				
	AKZO-44-254	300 g bag				