KEMPEROL® BRM

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

Product Description

KEMPEROL® BRM is a two-component including catalyst, high performance, cold-liquid applied polyester waterproofing resin for exterior applications.

Composition & Materials

A monolithic membrane is created in the field by combining the KEMPEROL® BRM, cold liquid-applied 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® BRM membranes are suitable for a wide range of exterior waterproofing applications, including insulated roof assemblies, inverted roof assemblies, green roofs, plazas and beneath hot asphalt pavement.

Limitations

KEMPEROL® BRM may be applied only when the ambient temperature is 35 ºF (2 ºC) and rising, and the substrate temperature is a minimum of 5 ºF above the dew point. The maximum application temperature is approximately 105 ºF (40 ºC).

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 ft^2 (3.0 m^2) / 10 kg work pack; 66 ft^2 (6.0 m^2) / 20 kg work pack
Using 200 Fleece: 28 ft^2 (2.6 m^2) / 10 kg work pack; 56 ft^2 (5.2 m^2) / 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 ºF (1.7 ºC) or above 80 ºF (27 ºC). Approximate shelf life 12 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 between 65-70 ºF (18-21 ºC).

Precautions

Review Safety Data Sheets before handling, available online at kempersystem.net.

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 or EP 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.

Allow primer to cure completely prior to application of the KEMPEROL® membrane.

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Sustainability Information	
Rapidly Renewable Resource	0%
Recycled Content % (post / pre)	0 / 0
Manufacture Location	Germany

Membrane Properties		
Physical Property	**Test Method**	**Value**
Color		Amber
Physical State		Cures to Solid
Thickness (165 Fleece)		70 / 80 mils
VOC Content		42 g/l
Peak Load @ 73 F, avg.	D5147	70 lbf/in
Elongation	D5147	Min 30%
Tearing Strength	D5147	90 lbf
Puncture resistance	D5602	56 lbs.
Dimensional stability	D1204	0.1%
Water absorption	D570	>.5%
Impact Resistance	D2240	Shore A:75
Water vapor transmission	E96	0.31 Perms
Crack spanning		2 mm/0.08 inch
Short-term temperature resistance		250 °C/482 °F
Usage time*		15 minutes
Water resistant after*		30 minuts
Solid to walk on after*		6 hours
Can be driven on after*		24 hours
Apply coating/surfacing after*		16-48 hours
Apply overburden after*		2-3 days
Completely hardened*		3 days

** values obtained at 73°F, 50% relative humidity, may vary depending upon air flow, humidity and temperature.*

Mixing of Resin

Note: Prior to opening the containers of KEMPEROL® BRM Resin, wear appropriate safety glasses and protect hands and wrists by wearing gloves.

Step 1: Mix the liquid resin with a spiral KEMPEROL® agitator until the liquid is a uniform color, with no light or dark streaks present. If the ambient temperature is below 50 ºF (10 ºC) or above 75 ºF (24 ºC) add and mix a weather-related additive for 5 minutes or until both liquids are thoroughly blended.

KEMPEROL® UP-A Cold Activator should be added to the liquid resin when the ambient temperature isbelow 50 ºF (10 ºC).

KEMPEROL® UP-I Inhibitor should be added to the liquid resin when the temperature exceeds 75 ºF (24 ºC).

Step 2: Add the Catalyst Powder to the liquid resin and mix with the same agitator for 2 minutes or until the powder is completely mixed throughout the liquid resin.

NOTE: It is not necessary to wait for the catalyst powder to dissolve before using the BRM Resin.

Application

Step 1: After the Resin is mixed, using a Kemperol roller nap or brush apply 2/3 of the resin liberally and evenly onto the surface in even stroke. Covering one working area at a time, between 10 - 15 ft^2.

Step 2: Roll the Kemperol Fleece directly into the Resin, making sure the SMOOTH SIDE IS FACING UP (natural unrolling procedure), avoiding folds and wrinkles. Use the roller or brush to work the resin into the fleece, saturating from the bottom up. White spots are indications of unsaturated fleece or lack of adhesion. It is important to correct these areas before proceeding.

Step 3: Apply the remaining 1/3 of the resin to the top of fleece to complete the saturation. Rolling the final coat of resin onto the fleece should result in a glossy appearance. The fleece can only hold so much resin and all excess should be rolled forward to the unsaturated portion of the fleece. The correct amount of resin will completely saturate the fleece and no white color will be visible. Work wet membrane to avoid any blisters, openings, or lifting at corners, junctions, and transitions. Always assure full resin saturation of fleece.

Overburden

KEMPEROL® BRM membrane must receive an alkalinity barrier before an application of a concrete overburden. The membrane must be allowed to fully cure, typically 2-3 days, prior to application of alkalinity protection, consisting of Kempertec EP, EP5, or AC primers with Surfacing 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 BRM resin may be disposed of in standard landfills. This is accomplished by thoroughly mixing all components. Note: Uncured BRM 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.

Ordering Information

KEMPEROL® BRM 20 kg Work pack

Item#:	Size:
202-77-205	19.4 kg / 4.42 US GAL (16.73L) Resin 600 g Catalyst Powder plastic bag

KEMPEROL® BRM 10 kg Work pack

Item#:	Size:
200-77-105	9.7 kg / 2.21 US GAL (8.37L) Resin 300 g Catalyst Powder plastic bag