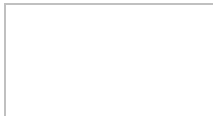
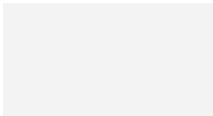
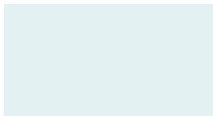

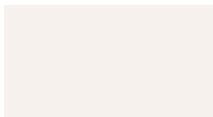
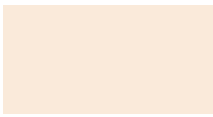


LEED Fact Sheet for Kemperol 2K-PUR Waterproofing and Roofing System

| | | |
|--|--|----------------|
| Product Description | <p>KEMPEROL 2K-PUR is a two-component, UV-stable high performance seamless and self-terminating cold fluid-applied polyester reinforced solvent-free polyurethane membrane system.</p> <p>KEMPEROL 2K-PUR membranes can be surfaced with polyurethane coating, light-reflective sand aggregate surfacing or other granular materials to match the appearance of the surrounding substrate.</p> | |
| Composition & Materials | <p>A monolithic membrane is created in the field by combining the KEMPEROL 2K-PUR 2-part, cold-applied liquid polyurethane resin with KEMPEROL polyester reinforcing fleece.</p> | |
| Physical Property Values | Color | Yellow-gray |
| | Physical state | Cures to solid |
| | Nominal thickness (165 fleece) | 70 mils |
| *Values obtained at 73 °F and 50% relative humidity, may vary depending upon air flow, humidity and temperature. | VOC Content | 6 g/l |
| | Tensile strength @ break | 120 lb/in |
| | Elongation | > 50% |
| | Tear resistance | 5.0 lbs |
| | Puncture resistance | 150 lbs |
| | Dimensional stability | 0.1 % |
| | Water vapor transmission | 0.04 perms |
| | Water absorption | 2.2% |
| | Impact resistance | Shore A:85 |
| | Usage time* | 30 minutes |
| | Water resistant after* | 2 hours |
| | Solid to walk on after* | 48 hours |
| | Can be driven on after* | 48 hours |
| | Apply overburden after* | 48 hours |
| | Apply coating/surfacing after* | 16-48 hours |
| Completely hardened after* | 3 days | |
| Crack spanning | 2 mm/0.08 inch | |
| short term temperature resistance | 250 °C/482 °F | |
| Recycled Content | 0 % | |
| Renewable Resources | Up to 80 % castor oil | |

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|------|--|
| Use | KEMPEROL 2K-PUR membranes are suitable for a wide range of interior and exterior waterproofing applications including mechanical rooms, plazas, roofs, planters, foundations and flashings. |
| LEED | <p>Ideal for vegetated roofs (FLL approved; no root barrier needed) and cool roofs (cool colors see next page).</p> <p>Ideal for blue roofing (water retention systems on the roof)</p> <p>Ideal for cool roofing (high reflective coatings available)</p> <p>LEED Stormwater Design SS Credit 6.1 (1 Point),</p> <p>LEED Stormwater Design SS Credit 6.2 (1 Point)</p> <p>LEED Heat Island Effect SS Credit 7.2 (1 Point)</p> |

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|---|---|--|--|--|
| Title 24 / CRRC approved cool colors coatings (separate products suited for 2K-PUR membranes) |  | Cool White Reflectivity: 74.74% Emittance: .84 SRI: 91 |  | Cool Steel Reflectivity: 68.13% Emittance: .89 SRI: 83 |
| |  | Cool Frost Reflectivity: 71.03% Emittance: .88 SRI: 87 |  | Cool Mint Reflectivity: 72.15% Emittance: .91 SRI: 89 |
| |  | Cool Earth Reflectivity: 70.63% Emittance: .90 SRI: 87 |  | Cool Adobe Reflectivity: 75.83% Emittance: .89 SRI: 94 |

500 Miles Radius Proximity of Material Manufacturing

