


# Kemroof Pu Thermodry

## Liquid Applied Polyurethane Elastomeric and Thermal Insulating Roof Coating

<b>Description</b>	It is a 100% solids liquid applied two components polyurethane coating, it is a fast cure, waterproofing elastomeric coating. It contains Nano, micro-sized thermal insulating technology that blocks heat transfer, reflects thermal radiation, and creates a moisture barrier.
<b>Where to use</b>	<ul style="list-style-type: none"> <li>• it is primarily for use as a Hi-Build waterproofing coating over:</li> <li>• Concrete roofs.</li> <li>• Metal roofs.</li> <li>• Wood roofs.</li> <li>• Tiles &amp; old roofing membranes.</li> <li>• Balconies &amp; Patios.</li> <li>• Plaza decks.</li> <li>• Rooftop (recreation able areas)</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Fast Cure</li> <li>• UV - Stable.</li> <li>• Waterproof &amp; water vapor permeable</li> <li>• Excellent adhesion.</li> <li>• Crack bridging &amp; Flexible at a temperature from -40 °C /+140 °C.</li> <li>• Excellent thermal, weather, and UV – resistance.</li> <li>• Chemical resistance</li> <li>• Conserves energy (4 times less than regular paint).</li> <li>• Reflects 69% of IR radiation</li> </ul>
<b>Properties</b>	
Density	1.2 ±0.2 gm/cm <sup>2</sup>
Vol. Solids %	100 %
Pot life @ 25°C	40 minutes
Recording time @ 25 C°	Min. 6 hours /Max. 48 hours
Curing time @ 25 C°	7 Days
Tensile Strength	4.22 N/mm <sup>2</sup>
Elongation	40% - 45%
Thermal Conductivity	0.046 W/m - °C
Shore a Hardness	80
Adhesion strength	1.4 N/mm <sup>2</sup>
Water absorption	0.8 %
Abrasion Resistance	20-25 mg loss
 Resistance to 1 m. column water pressure shows no leak <b>(BS EN 1928)&amp;ASTM D-412,2240,903,471,5957, C-794-01, EN12667</b>	

Surface Preparation	<ul style="list-style-type: none"> <li>• Surfaces must be clean, sound, and dry, free from any contaminations (max. moisture content 5 %).</li> <li>• Old loose roofing must be removed by grinding machines.</li> <li>• Any surface irregularities must be smoothed.</li> </ul>
Mixing	<ul style="list-style-type: none"> <li>• Premix (A&amp;B) separately in its container.</li> <li>• Add part (B) to Part (A) and mix thoroughly with a low-speed mixer for 2 minutes</li> </ul>
Application	<ul style="list-style-type: none"> <li>• Prime the substrate with <b>Sealer E43</b> in case of dry surfaces or <b>Wetseal PU</b> for wet surfaces.</li> <li>• Apply <b>Kemprim M &amp; Kemprim AL</b> for metal surfaces.</li> <li>• Leave to dry for 24 hours. Allow drying overnight.</li> <li>• Repair cracks or joints with the material mixed with a dry filler to a butter consistency.</li> <li>• Use <b>Proflex LM</b> sealant for expansion joints</li> <li>• Apply the coating with a roller or airless spray until the surface is covered and leave it to cure (6-48 hours) between coatings</li> <li>• Apply another one or two coats.</li> <li>• Reinforce with <b>Kemfelt</b> for joint cracks.</li> <li>• Leave to dry for 24 hours.</li> </ul>
Theoretical coverage	0.15 Kg/m <sup>2</sup> at 125 Micron D.F.T 0.3 – 0.5 Kg/m <sup>2</sup> when reinforced with 60 gr <b>Kemfelt</b> / coat 2 coats are always recommended
Packaging	5 Kg (A&B) pails 20 Kg (A&B) pails
Shelf life & Storage	6 months in its unopened Packs stored in cool, dry conditions
Health and Safety	<ul style="list-style-type: none"> <li>• Use goggles, gloves, and a breathing mask when applying.</li> <li>• Apply forced ventilation in confined spaces.</li> <li>• skin splashes to be removed with hand cleaner, soap, and water</li> <li>• Eye splashes are to be washed with plenty of water.</li> <li>• If ingested seek medical advice.</li> </ul>
Additional Information	<p><b>PROKEM</b> provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure.</p> <p><b>PROKEM</b> designs tailor made products should there be critical application that requires specific properties rather than our main range for our customer's satisfaction.</p> <p><b>PROKEM</b> reserves the right to change the properties of its products.</p> <p>All orders are accepted subject to our current term of sale &amp; delivery.</p> <p>Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.</p> <p><b>PROKEM</b> extends technical services to include after-sales support to assist users in the proper handling of our products.</p>