

Kemroof PU Thermodry

Liquid Applied Polyurethane Elastomeric and Thermal Insulating Roof Coating

Description	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.
Where to use	• it is primarily for use as a Hi-Build waterproofing coating over: • Concrete roofs. • Metal roofs. • Wood roofs. • Tiles & old roofing membranes. • Balconies & Patios. • Plaza decks. • Rooftop (recreation able areas)
Advantages	• Fast Cure • UV - Stable. • Waterproof & water vapor permeable • Excellent adhesion. • Crack bridging & Flexible at a temperature from -40 °C /+140 °C. • Excellent thermal, weather, and UV – resistance. • Chemical resistance • Conserves energy (4 times less than regular paint). • Reflects 69% of IR radiation
Properties	
Density	1.2 ±0.2 gm/cm ²
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 ²
Elongation	40% - 45%
Thermal Conductivity	0.046 W/m - °C
Shore a Hardness	80
Adhesion strength	1.4 N/mm ²
Water absorption	0.8 %
Abrasion Resistance	20 - 25 mg loss
 Resistance to 1 m. column water pressure shows no leak (BS EN 1928)&ASTM D-412,2240,903,471,5957, C-794-01, EN12667	

Surface Preparation	• Surfaces must be clean, sound, and dry, free from any contaminations (max. moisture content 5 %). • Old loose roofing must be removed by grinding machines. • Any surface irregularities must be smoothened.
Mixing	• Premix (A&B) separately in its container. • Add part (B) to Part (A) and mix thoroughly with a low-speed mixer for 2 minutes
Application	• Prime the substrate with Sealer E43 in case of dry surfaces or Wetseal PU for wet surfaces. • Apply Kemprim M & Kemprim AL for metal surfaces. • Leave to dry for 24 hours. Allow drying overnight. • Repair cracks or joints with the material mixed with a dry filler to a butter consistency. • Use Proflex LM sealant for expansion joints • Apply the coating with a roller or airless spray until the surface is covered and leave it to cure (6-48 hours) between coatings • Apply another one or two coats. • Reinforce with Kemfelt for joint cracks. • Leave to dry for 24 hours.
Theoretical coverage	• 0.3 Kg/m²/250 microns (D.F.T) • 2 coats are recommended • For reinforced coating 1.5 – 2.0 Kg/m² being applied over 3 layers using Kemfelt 26 g – 60 g
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	• Use goggles, gloves, and a breathing mask when applying. • Apply forced ventilation in confined spaces. • Skin splashes to be removed with hand cleaner, soap, and water • Eye splashes are to be washed with plenty of water. • If ingested seek medical advice.
Additional Information	PROKEM 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. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range for our customer's satisfaction. PROKEM reserves the right to change the properties of its products. All orders are accepted subject to our current term of sale & delivery. 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. PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products.