

Kemfloor PU

Solvent-Free, Flexible, Hygienic Aliphatic Polyurethane High Build Coat

Description	A solvent-free, cold liquid applied elastomeric membrane of two-components, UV resistance, flexible hygienic polyurethane resin forming a high wearing and abrasion properties, with high gloss finish coat exhibits a low temperature flexibility to meet standards ASTM C-957, C-1127, C-836, ASTM E108 & DIN 4102 Class A1	
Where to use	• Car parks • Airports • Playing courts and Deck floors • Steel structures • Food, beverage & medical factories • Swimming pools and artificial lakes	
Advantages	• Solvent-free & hygienic • Excellent adhesion to most substrates including P.V.C • Flexible, excellent crack bridging at low temperatures • High abrasion resistance • Excellent weather resistance & 100% UV stable • Chemical resistance to petrol, oils, solvents, acids, water, mineral spirits & ethylene glycol • Temperature resistance: - 40 °C /+ 120 °C • Resistant to fire & smoke spread (Special version)	
Properties		
Density	1.3 ±0.05 g/cm ³	
Pot life @ 23 °C	50 minutes	
Time to recoat @ 23 °C	6 hours	
Full cure @ 23 °C	7 Days	
Crack bridging	1mm – No observable change	ASTM C1305
% Elongation	77 – 88 %	ASTM D-412
Tensile strength	2.6 – 2.9 N/mm ²	ASTM D-412
Abrasion resistance	44 mg loss	
Resistance to UV – 200 hours	Passed – no cracking, chalking, flaking or wrinkling effect in color were observed	ASTM G154
Fire resistance – Direct flame exposure	15 cycles of 2 minutes each Exposure of 10 minutes – maximum spreading distance = 1.8 m	Passed Class A - ASTM E108
Surface Preparation	• Laitance and contamination are to be removed by any mechanical methods such as sandblasting, grinding, and scarification according to the surface profile required • All loose particles and residues must be removed to provide a clean, dry, sound surface • Surfaces must be free from oil, greases, and curing compounds • All dust and debris must be removed through vacuuming • Steel surfaces should be blasted to Sa 2½ and surface profile (50 – 100 microns)	

Mixing	• Stir well components (A&B) individually before mixing • Add component (B) to component (A) and mix thoroughly using a low-speed mixer until a homogeneous mix is obtained, usually 2 – 3 minutes • Material can be thinned if needed using 3% of Prosolve PU up to a maximum of 5%
Application	• Prime the prepared surface using Sealer E43 or Sealer E45 • *In the case of wet or green concrete substrates Wetseal can be used • Apply coating with roller, brushes, or airless spray to a uniform finishing
Cleaning	Tools and equipment should be cleaned immediately after use with Prosolve PU
Theoretical coverage	Primer, Sealer E43 or Sealer E45 : 0.15 – 0.2 Kg/m ² Wetseal : 0.2 – 0.3 Kg/m ² Kemfloor PU : 0.26 – 0.3 Kg/m ² for a D.F.T of 200 – 230 micron A minimum of 2 coats are always recommended For Anti-Slip Applications or Multi-Layer Systems, use Kemfloor Aggregate : 1 - 2 Kg/m ²
Packaging	(A&B) pails 5 & 20 Kg
Shelf life & storage	6 months if stored in unopened containers in cool, dry condition
Health and Safety	• Use gloves and a breathing mask when applying • Apply forced ventilation in confined spaces • Skin splashes to be removed with hand cleanser, soap, and water • Eye splashes are to be removed 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 structures PROKEM designs tailor made products should there be a 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 terms 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