

Roof Coat

Single Component, Acrylic Polyurethane Waterproofing and Protective Coating

Description	It is a single component, acrylic polyurethane water proofing and protective coating. Roof Coat upon curing forms a tough, flexible and durable coating which is resistant to UV and other weathering agents, due to these factors the coat will be perfect bond to PU foam surfaces and concrete surfaces, representing the safest option for both permanent and temporary exposed roofs.
Where to use	• Spray applied over polyurethane foam • Protection coating for exposed roofs • Concrete roofs • Metal roofs • Wood roofs • Tiles & old roofing membranes • Balconies & Patios
Advantages	• Excellent UV, weather ability and color retention properties • Single component, Easy to use • Excellent resistance to water and moisture • Breathable • High solar reflectance • Environmentally friendly, Low VOC (<10 g /l) • Excellent adhesion on PU Foam and most porous substrates • resistant to fire & smoke spread (Special version)
Properties	
Color	White
Density	1.25 ±0.05 gm/cm ³
% vol. Solid Content	60 ±2
VOC	< 10 g/l
Tensile strength	2 - 2.2 N/mm ²
Elongation	100% - 150%
Adhesion to PU foam	≥ 0.5 N/mm ²
Adhesion to concrete	1 - 1.5 N/mm ²
Water flood test	Pass
UV resistance @ 1000 hrs.	No deterioration
It complies with ASTM D 1475, 2969, 3960 ,412, 4541, 406 0, ASTM G 154, ASTM E 96, ASTM E-108, ASTM C 1305, EN1062-3, EN 1062-6	
Application temp.	5 °C to 45 °C
Crack bridging	1 mm
Water permeability	133 g m/m ² .day
Water vapor transmission	3.8 gm/m ² . Day
Carbon dioxide diffusion resistance	3.88x10 ⁵ (116m)

Surface Preparation	•The surface shall be cleaned thoroughly of all contaminants •For concrete substrate, impurities like dust, traces of curing compound, oil and grease shall be cleaned thoroughly •Light mechanical grinding, grit blasting, high pressure water jet may be used to clean the surface of all contaminants depending on the degree of contamination on the surface to be coated •All surface imperfections and protrusions shall be removed and repaired with a suitable concrete repair mortar
Priming	•On horizontal surface Roof Coat can be applied directly without a primer •Primer coat is recommended on the vertical surfaces to seal the pores and stabilize the surface •Prime coat is a mix of Roof Coat to water with a ratio 1:1 •Drying time of the primer is 0.5 - 1 hour •Priming is not required for PU Foam when applied as a protection coating
Mixing	Stir the material with low speed drill until homogenous, air bubbles free material is obtained
Application	•Apply the coating with a brush, roller or airless spray •Allow the first coat to dry (6 - 12 hr.) before applying the second •2 coats should always be applied •The coating can be reinforced with non-woven geotextile membrane Kemfelt EG for expansion joints and corner fillets •Final curing 72 hours
Cleaning	Clean all tools & equipment after use with water, If hardened clean mechanically
Theoretical coverage	•0.6 Kg/m²/300 microns (D.F.T) •0.1 – 0.2 Kg/m² for parapet walls •For reinforced coating: 2.0 Kg/m² (D.F.T 1000 microns)
Packaging	20 Kg pails
Shelf life & Storage	12 months if stored in its original unopened packing
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 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