

Kemcoat CPU

High Gloss, High Strength, UV Resistant, Fast Cure, Chemical Resistant,
 Two Components, Aliphatic Cold Applied Polyurea Coating

Description	Aliphatic cold applied Polyurea is a pure 100% solids top coat. It has a very low odor, moisture insensitive, low viscosity, quick dry, flexible, UV-resistant, high strength, water and chemical resistant coating. It is suitable for concrete and over existing Polyurea coatings. It can be applied at low temperature, when fully cured, it will produce a highly abrasion, wear resistant, high gloss and smooth finish over concrete, wood or steel	
Where to use	<ul style="list-style-type: none">• A protection UV-resistant coat for Polyurea coating system• Cold storage area• Industrial warehouses• Food processing areas• Pulp and paper mills• Chemical plants• Aircraft hangars and garages• Patios, walkways and driveways• Show rooms, Automobiles dealerships	
Advantages	<ul style="list-style-type: none">• Fast cure• Low moisture sensitivity• High tensile strength• High abrasion resistance• Color stable & water clear• Excellent adhesion• No odor and zero - VOC• UV stable• High gloss• Excellent chemical & water resistance• Cures at low temperature	
Properties		
Density	Transparent: 1 ± 0.08 gm/cm ³	Colored: 1.2 ± 0.1 gm/cm ³
Temperature resistance	-40/+140 °C	
Pot life at 25 °C	35 minutes	
Recoating time at 25 °C	Transparent: minimum 1 hour maximum 24 hours	Colored: minimum 45 minutes maximum 24 hours
Curing time at 25 °C	Transparent:	Colored:
Foot traffic	3 - 4 hours	2 - 3 hours
Light traffic	8 hours	8 hours
Heavy Traffic	5 days	5 days
Tensile strength	Transparent: 12 - 13 N/mm ²	Colored: 14 - 15 N/mm ²
Elongation	Transparent: 90 % – 100 %	Colored: 40 % – 50 %
Shore D Hardness	Transparent: 60 – 65	Colored: 70 % – 75 %
Pull off strength	Transparent: 2.2 Mpa	Colored: 2.5 Mpa
Chemical, water & sewage resistance	Excellent, please consult Technical office	

	For top coat over Polyurea: <ul style="list-style-type: none"> • Surface to be prepared by a light sanding – 150 – 200 grit until sheen is removed and wiped properly to remove any dust or loose particles • Surface must be sound, clean and dry, free from dust, laitance, grease, curing compounds and other contaminants 	
Surface Preparation	Protective coating system over concrete: <ul style="list-style-type: none"> • Laitance and contamination to be removed by any mechanical methods such as sandblasting, grinding and scarification according to surface profile required • All loose particles and residues must be removed to provide a clean, dry and sound surface • Surfaces must be free from oil, greases and curing compounds • All dust and debris must be removed by thorough vacuuming • Steel surfaces should be blasted to Sa 2 ½ and surface profile (50 - 100 microns) 	
Mixing	<ul style="list-style-type: none"> • Premix (A&B) separately in its containers • Add Part B to part A and mix thoroughly for 2 minutes with low speed mixer • Material can be diluted by 3% - 5% Prosolve PA when applied using airless spray • Avoid air bubbles while mixing 	
Application	As a top coat over Polyurea: <ul style="list-style-type: none"> • The coating can be applied with a brush, roller, squeegee or airless spray • Apply two coats in perpendicular directions As a protective system over concrete: <ul style="list-style-type: none"> • Application temperature (-5 °C / +50 °C) • Prime the concrete surface with Sealer E43, in case of wet concrete use Wetseal & leave to dry overnight • The coating can be applied with a brush, roller, squeegee or airless spray • Apply to provide a uniform coverage • 2 coats are required 	
Cleaning	Clean immediately with Prosolve PA Cured material can be removed mechanically	
Theoretical coverage	Transparent: <ul style="list-style-type: none"> • 0.20 Kg/m² at D.F.T. 200 microns / coat • 2 coats are recommended 	Colored: <ul style="list-style-type: none"> • 0.24 Kg/m² at D.F. T. 200 microns / coat • 2 coats are recommended
Packaging	<ul style="list-style-type: none"> • 1 kg (A&B) pails • 3 kg (A&B) pails 	
Shelf life & Storage	12 months if stored in a dry, cool conditions in their original, unopened containers	
Health and Safety	<ul style="list-style-type: none"> • Use goggles, gloves and 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	<p>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</p> <p>PROKEM 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>PROKEM reserves the right to change the properties of its products</p> <p>All orders are accepted subject to our current term of sale & 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>PROKEM extends technical services to include after sales support to assist users in a proper handling of our products</p>	