

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: $1 \pm 0.08 \text{ gm/cm}^3$	Colored: $1.2 \pm 0.1 \text{ gm/cm}^3$
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: $12 - 13 \text{ N/mm}^2$	Colored: $14 - 15 \text{ N/mm}^2$
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	



<p>For top coat over Polyurea:</p> <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 	
<p>Protective coating system over concrete:</p> <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) 	
Surface Preparation	
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 <p>As a top coat over Polyurea:</p> <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 <p>As a protective system over concrete:</p> <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
Application	
Cleaning	<p>Clean immediately with Prosolve PA Cured material can be removed mechanically</p>
Theoretical coverage	<p>Transparent:</p> <ul style="list-style-type: none"> • 0.20 Kg/m² at D.F.T. 200 microns / coat • 2 coats are recommended <p>Colored:</p> <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	<p>12 months if stored in a dry, cool conditions in their original, unopened containers</p> <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
Health and Safety	<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>
Additional Information	