

Kemfloor CPU

High Gloss, Aliphatic, Two Components, Cold Applied Polyurea, Coating System

Description	Aliphatic cold applied Polyurea, with 100% solids top coat, that has zero odor, moisture insensitive, low viscosity, fast dry, flexible, UV-resistant, high strength, and chemical resistant coating. It is suitable for concrete and over existing epoxy coating It can be applied at low temperatures, and when fully cured, it will produce high abrasion wear-resistant, high gloss, and smooth finish over concrete, wood or steel.	
Where to use	<ul style="list-style-type: none"> • Cold storage area • Industrial warehouses • Food processing areas • Pulp and paper mills • Chemical plants • Aircraft hangars and garages • Patios, walkways, and driveways • Showrooms, Automobile dealerships • Restaurants floors, Entry, and lobby areas 	
Advantages	<ul style="list-style-type: none"> • Fast cure (one-day job) • Low moisture sensitivity • High tensile strength • Color stable & water clear • Excellent adhesion • No odor and zero - VOC • UV stable • High gloss • Higher abrasion resistance • Three times more durable than epoxy coatings • Excellent chemical resistance • Cures at low temperature 	
Properties		
Density	Transparent: $1 \pm 0.08 \text{ gm/cm}^3$	Colored: $1 \pm 0.19 \text{ gm/cm}^3$
Temperature resistance	-40/+140 °C	
Pot life at 25 °C	20 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	$13 - 14 \text{ N/mm}^2$	
Elongation	90 % – 100 %	
Shore D Hardness	60 – 65	
Pull off strength	2.2 Mpa	
Chemical, water & sewage resistance	Excellent, please consult technical office	
Abrasion resistance	66.5 mg	
	35 – 38 mg	



Surface Preparation	<ul style="list-style-type: none"> • Surface must be sound, clean and dry, free from dust, laitance, grease, curing compounds and other contaminants • Surface to be prepared by shot blasting or any approved mechanical means to achieve a surface profile of (CSP2-3) • Sweep or vacuum any dust or loose particles • Concrete compressive Strength after 28 days should be 25 Mpa and tensile bond 1.5 Mpa • For applying over old or new epoxy coatings, the surfaces must be sanded (80 grit) and the sheen removed and wiped properly to remove any dust • Do not coat over acrylic or polyurethane coatings unless it is de-glossed
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 a low -speed mixer • If desired add in 5% - 10% Prosolve PA for thinning and stir • Avoid air bubbles while mixing
Application	<ul style="list-style-type: none"> • Prime the concrete surface with Sealer E43, in case of high moisture concrete use Wetseal leave it to dry overnight • The coating can be applied with a brush, roller, squeegee or airless spray • Apply to provide a uniform coverage without bonding and apply it in one direction at a thickness (100 – 120 microns)/coat • It can be used as a clear top coat for broadcast quartz or flake system or used as a pigmented coating with color chips or quartz • Application temperature (-5°C / +50 °C)
Cleaning	<ul style="list-style-type: none"> • Clean immediately with Prosolve PA • Cured material can be removed mechanically
Theoretical Coverage	<p>Transparent:</p> <ul style="list-style-type: none"> • 0.1 Kg/m² at D.F.T. 100 microns/coat 2 coats are recommended <p>Colored:</p> <ul style="list-style-type: none"> • 0.15 Kg/m² at D.F.T. 100 microns/coat 2 coats are recommended
Packaging	(A&B) pails 1,3, & 5 Kg
Shelf life & storage	12 months if stored in unopened containers in cool, dry condition
Health and Safety	<ul style="list-style-type: none"> • 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 <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 structures</p>
Additional Information	<p>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</p> <p>PROKEM reserves the right to change the properties of its products</p> <p>All orders are accepted subject to our current terms 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 the proper handling of our products</p>