

Kemcoat PA

High Gloss, High Strength, UV Resistant, Fast Cure, Chemical Resistant,

Two Components, Polyaspartic Aliphatic Polyurea Coating

Description	Aliphatic Polyurea is a pure 100% solids sealer and top coat (transparent or colored). It has zero odors, moisture insensitive, low viscosity, quick dry, flexible, UV-resistant, high strength and water, chemical resistant coating. It is suitable for concrete and over existing epoxy coating. 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"> • 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. • Potable, Sewage, industrial water tanks & artificial lakes.
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 than MMA .1 Three times more durable than epoxy coatings. • Can be applied as a single coat up to 400 microns. • Excellent chemical & water resistance. USDA, CFIA acceptable. • Cures at low temperature.
Properties	
Density (colored)	1 ± 0.19 gm/cm ³
(Transparent)	1 ± 0.08 gm/cm ³
Temp. resistance	-40/+140 °C
Pot life at 25 °C (Colored)	15 minutes
(Transparent)	35 minutes
Recoating time at 25 °C (Colored)	min 45 minutes max 24 hours
(Transparent)	min 1 hour max 24 hours
Curing time at 25 °C	
Foot traffic	2-3 hours
Light traffic	8 hours
Heavy Traffic (colored)	5 days
Curing time at 25 °C	
Foot traffic	3-4 hours
Light traffic	8 hours
Heavy Traffic (Transparent)	5 days
Tensile strength(colored)	14-15 N/mm ²
(Transparent)	12-13 N/mm ²

Elongation(colored) (Transparent)	40 - 50% 90 - 100%
Shore D Hardness(colored) (Transparent)	70 - 75 60 - 65
Pull off strength(colored) (Transparent)	2.5 Mpa 2.2 Mpa
Chemical, water & sewage resistance	Excellent, please consult Technical office
It complies with ASTM D1308	
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 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 low speed mixer or by hand. • If desired add in 5%-15% MEK or acetone 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 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 without bonding and apply it in a multi directional motion at a thickness (100-500 microns)/coat. • It can be used as a clear top coat for a broadcast quartz or flake system or used as a pigmented coating with color chips or quartz. • Application temperature (-5°c / +50°c).
Cleaning	Clean immediately with Prosolvent PU . Cured material can be removed mechanically .
Theoretical coverage	<ul style="list-style-type: none"> • 0.24 Kg/m² at D.F. T. 200 microns / coat – Colored Version • 0.22 Kg/m² at D.F.T. 200 microns / coat – Clear Version • 2 coats are recommended
Packaging	<ul style="list-style-type: none"> • 5 kg (A&B) pails. • 20 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 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>