

# Kemcoat PA

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

Two Components, Polyaspartic Aliphatic Polyurea Coating

<b>Description</b>	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
<b>Where to use</b>	<ul style="list-style-type: none"> <li>• Cold storage area.</li> <li>• Industrial warehouses.</li> <li>• Food processing areas.</li> <li>• Pulp and paper mills.</li> <li>• Chemical plants.</li> <li>• Aircraft hangars and garages.</li> <li>• Patios, walkways and driveways.</li> <li>• Show rooms, Automobiles dealerships.</li> <li>• Potable, Sewage, industrial water tanks &amp; artificial lakes.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Fast cure (one-day job).</li> <li>• Low moisture sensitivity.</li> <li>• High tensile strength.</li> <li>• Color stable &amp; water clear.</li> <li>• Excellent adhesion.</li> <li>• No odor and zero - VOC.</li> <li>• UV stable.</li> <li>• High gloss.</li> <li>• Higher abrasion resistance than MMA .1 Three times more durable than epoxy coatings.</li> <li>• Can be applied as a single coat up to 400 microns.</li> <li>• Excellent chemical &amp; water resistance. USDA, CFIA acceptable.</li> <li>• Cures at low temperature.</li> </ul>
<b>Properties</b>	
Density (colored)	1 ± 0.19 gm/cm <sup>3</sup>
(Transparent)	1 ± 0.08 gm/cm <sup>3</sup>
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 <sup>2</sup>
( Transparent)	12-13 N/mm <sup>2</sup>

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	
<b>Surface Preparation</b>	<ul style="list-style-type: none"> <li>• Surface must be sound, clean and dry, free from dust, laitance, grease, curing compounds and other contaminants.</li> <li>• Surface to be prepared by shot blasting or any approved mechanical means to achieve a surface profile of (CSP2-3).</li> <li>• Sweep or vacuum any dust or loose particles.</li> <li>• Concrete compressive Strength after 28 days should be 25 Mpa and tensile bond 1.5 Mpa.</li> <li>• 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.</li> <li>• Do not coat over acrylic or polyurethane coatings unless it is de-glossed.</li> </ul>
<b>Mixing</b>	<ul style="list-style-type: none"> <li>• Premix (A&amp;B) separately in its containers Add Part B to part A and mix thoroughly for 2 minutes with low speed mixer or by hand.</li> <li>• If desired add in 5%-15% MEK or acetone for thinning and stir.</li> <li>• Avoid air bubbles while mixing .</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>• Prime the concrete surface with <b>Sealer E43</b>, in case of wet concrete use <b>Wetseal &amp;</b> leave to dry overnight</li> <li>• The coating can be applied with a brush, roller, squeegee or airless spray.</li> <li>• Apply to provide a uniform coverage without bonding and apply it in a multi directional motion at a thickness (100-500 microns)/coat.</li> <li>• 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.</li> <li>• Application temperature (-5°c / +50°c).</li> </ul>
<b>Cleaning</b>	Clean immediately with <b>Prosolvent PU</b> . Cured material can be removed mechanically .
<b>Theoretical coverage</b>	<ul style="list-style-type: none"> <li>• 0.24 Kg/m<sup>2</sup> at D.F. T. 200 microns / coat – Colored Version</li> <li>• 0.22 Kg/m<sup>2</sup> at D.F.T. 200 microns / coat – Clear Version</li> <li>• 2 coats are recommended</li> </ul>
<b>Packaging</b>	<ul style="list-style-type: none"> <li>• 5 kg (A&amp;B) pails.</li> <li>• 20 kg (A&amp;B) pails.</li> </ul>
<b>Shelf life &amp; Storage</b>	12 months if stored in a dry, cool conditions in their original, unopened containers.
<b>Health and Safety</b>	<ul style="list-style-type: none"> <li>• Use goggles, gloves and breathing mask when applying.</li> <li>• Apply forced ventilation in confined spaces.</li> <li>• Skin splashes to be removed with hand cleaner, soap and water.</li> <li>• Eye splashes to be washed with plenty of water</li> <li>• If ingested seek medical advice.</li> </ul>
<b>Additional Information</b>	<p><b>PROKEM</b> 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><b>PROKEM</b> designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction <b>PROKEM</b> reserves the right to change the properties of its products.</p> <p>All orders are accepted subject to our current term of sale &amp; 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><b>PROKEM</b> extends technical services to include after sales support to assist users in a proper handling of our products.</p>