

Kemfloor PA Thermodry

High Gloss, High Strength, UV Resistant, Fast Cure, Chemical Resistant, Thermal Insulating, Two Components, Polyaspartic Aliphatic Polyurea Coating

Description	Aliphatic poly aspartic is a pure 100% solids sealer and top coat, that has zero odor, is moisture insensitive, low viscosity, quick dry, flexible, UV-resistant, high strength, and chemical resistant coating. It will produce a highly abrasion high gloss and smooth finish over concrete, wood, or steel. It contains Nano; micro-sized thermal insulating technology that blocks heat transfer, reflects thermal radiation and creates a moisture barrier.
Where to use	• Cold storage area • Industrial warehouses • Food processing areas • Pulp, paper mills, and Chemical plants • Aircraft hangars and garages • Patios, walkways, and driveways • All types of roof decks • Showrooms, Automobile dealerships • Restaurants floors, Entry, and lobby areas
Advantages	• 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 • Excellent thermal resistance • Three times more durable than epoxy coatings • Can be applied in as a single coat up to 400 microns • Excellent chemical resistance • conserves energy (4 times less than regular paint) • Reflects 95% of IR radiation
Properties	
Density (colored)	1 ±0.19 gm/cm³
(Transparent)	1 ±0.08 gm/cm³
Temp. Resistance	-40 up to +140 °C
Pot Life @ 25 °C	
(Colored)	15 minutes
(Transparent)	35 Minutes
Recoating time @ 25 °C	
(Colored)	Min. 45 minutes/Max. 24 hours
(Transparent)	Min. 1 hour /Max. 24 hours

Curing time @ 25 °C	
(Colored)	
(Foot Traffic)	2 – 3 hours
(Light Traffic)	8 hours
(Heavy Traffic)	5 days
Curing time @ 25 °C	
(Transparent)	
(Foot Traffic)	3 – 4 hours
(Light Traffic)	8 hours
(Heavy Traffic)	5 days
Tensile strength	
(Colored)	14 - 15 N/mm ²
(Transparent)	12 - 13 N/mm ²
Elongation	
(Colored)	40 - 50%
(Transparent)	90 - 100%
Shore D Hardness	
(Colored)	70 - 75
(Transparent)	60 - 65
Abrasion Resistance	
(Colored)	37 - 38 mg. Loss
(Transparent)	66.5 mg. Loss
Pull of Strength	
(Colored)	2.5 N/mm ²
(Transparent)	2.2 N/mm ²
Thermal Conductivity	
	0. 036 W/m. °C
 it complies with ASTM E96, D638,4060,5441, EN12667	
Surface Preparation	• 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 pf (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 (80grit) and sheen removed and wiped properly to remove any dust • Do not coat over acrylic or polyurethane coatings unless it is de-glossed
Mixing	• Premix (A&B) separately in its containers • Add Part B to part A and mix thoroughly for 2 minutes with low-speed mixer or manually • Avoid air bubbles while mixing
Application	• Prime the concrete surface with Sealer E43 in case of wet concrete Wetseal and leave to dry overnight • The coating can be applied with 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 of 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 Prosolve PU Cured material can be removed mechanically
Theoretical coverage	Approximately 0.25 Kg/m ² / 250 microns D.F.T 2 coats are recommended
Packaging	5 Kg A & B Pails
Shelf life & Storage	Kemfloor PA Thermodry has a shelf life of 12 months if kept in original packs in a dry condition
Health and Safety	• Use goggles, gloves and a breathing mask when applying • Apply forced ventilation in confined spaces • Remove splashes from skin with hand cleaner or soap and water • Eye splashes to be washed with plenty of water
Additional Information	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. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range for our customer's satisfaction, therefore; PROKEM reserves the right to change the properties of its products. All orders are accepted subject to our current term of sale & delivery. 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. PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products.