

Kemfloor Novolac

Heavy Duty, Super Chemical Resistant Novolac Epoxy Coating

Description	Kemfloor Novolac is a solvent-free 2 pack component Novolac epoxy coating, for extremely high strength and exceptional chemical resistance floor topping.	
Where to use	A heavy-duty Novolac epoxy coating for dairies, food processing and soft drinks factories, hospitals and pharmaceutical industry, chemical industry, power stations, battery rooms, heavy engineering plant workshops and oil refineries.	
Advantages	• Solvent-free, no fire risk. • Excellent adhesion to concrete and steel substrate. • Anti-slip, anti-skid finish. • High mechanical strengths. • High abrasion resistance. • High chemical resistance.	
Properties		
Color	Natural, White, Grey, and others	
Solids content by volume	100 %	
Specific gravity	1.1 ±0.2	
Chemical resistance	Refer to PROKEM chemical resistance table	
Temperature resistance	Up to +100 °C	
Compressive strength	40 – 45 N/mm ²	ASTM C-579
Flexural strength	30 – 35 N/mm ²	
Impact	2.5 N.m	
Tensile strength	20 N/mm ²	
Pot life	25 min. @ 23°C (reduced at higher temperature)	
Time to recoat	24 hrs.	
Fully cured	7 Days	
Hardness (shore D)	+82	
Abrasion resistance	88 mg loss	ASTM D-4060
Bond strength to concrete	> 1.5 N/mm ²	ASTM D-4541

Technical information at 23°C/after 7 days

Surface Preparation	New poured concrete: • Allow to fully cure 28 days prior to application. • Remove any curing membrane by sanding or etching with a strong detergent.
	Old concrete: • Thoroughly clean the surface with a grease-cutting detergent to remove grease and oils, and remove any loose or unsound concrete by chipping, scarifying, shot blasting, sanding, or grinding. Proceed as for newly poured concrete.
	Previously coated concrete: • Remove any peeling or degraded paint by sanding or using a paint stripper. • For intact paint, thoroughly clean the surface with a strong detergent, then lightly sand to remove any gloss. • Treat any areas worn down to the original concrete as bare concrete. • All damaged areas, cracks, and surface irregularities must be repaired and smoothed first by using Kemrepair EP and bonding layer using Kembond EP.
	Steel surface: • The steel surface should be blasted to Sa 2 ½ surface quality to remove rust and mill scale and ensure that all traces of rust are removed.
Expansion Joints	Shall be installed in accordance with local building codes. Never bridge an expansion, contraction, or construction joint.
Mixing	• Stir the contents of each component in its pack. • Add part (B) into part (A) and mix for 2-3 minutes with a low-speed drill.
Application	• Application at 10 - 30 °C & R.H < 85% • Pour the coating in a narrow line directly onto the concrete surface. • Spread the coating with a squeegee. • Continuously spread the coating from one side of the area being coated to the other. • Immediately follow with a nap shed resistance roller. • The floor coating must be rolled as evenly as possible.
Cleaning	Tools and equipment should be cleaned with PROKEM special solvent immediately after use
Limitations	• Avoid excess agitation of the coating with the roller to avoid air bubbles. • For interior use only. • Do not use when humidity exceeds 85% indoors.
Theoretical coverage	Prime the prepared surface using Sealer E43 at a theoretical consumption of 0.15 – 0.2 Kg/m² *In the case of wet or green concrete substrates Wetseal can be used Apply Kemfloor Novolac 0.2 – 0.25 Kg/m² for a D.F.T of 180 – 230 micron 2 coats are always recommended For Anti-Slip Applications or Multi-Layer Systems Kemfloor Aggregate : 1 - 2 Kg/m²
Packaging	5 & 20 Kg Pails (A+B)
Shelf life & storage	Kemfloor Novolac has a shelf life of 12 months if kept in its original packs in a dry condition

Health and Safety

- 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.
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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 structures.

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.

PROKEM reserves the right to change the properties of its products.

All orders are accepted subject to our current terms 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.