

Kemcoat Novolac

Solvent-Free Superior Chemical Resistant Epoxy Resin Coating

Description	Kemcoat Novolac is a solvent free 2 components Epoxy Novolac coating, for an extremely high strength exceptional chemical resistance, heat resistance up to 100°C epoxy coating for steel and concrete.
Where to use	A unique epoxy system for: <ul style="list-style-type: none"> •Dairies, food processing, soft drinks factories •Hospitals, pharmaceutical industry •Heavy engineering plant workshops, oil refineries and acid storage tanks.
Advantages	<ul style="list-style-type: none"> •Solvent-free, no fire risk. •Excellent adhesion to concrete, mortar and steel substrate. •Non corrosive. •Excellent resistance to thermal shocks. •High mechanical strengths. •High resistance to abrasion. •High chemical resistance.
Properties	
Color	Transparent, white & Grey
Solids by volume	100 %
Specific gravity	1.55 ±0.2 Transparent 1.6 ±0.2 Colored
Chemical Resistance	Refer to PROKEM chemical resistance tables .
Technical information @ 23 °C/after 7 days	
Bond strength	3 N/mm ²
Hardness shore D	77 – 80
Impact	2.5 N.m
Tensile strength	7 N/mm ²
Pot life @ 23 °C	45 Min (reduced at higher temperatures)
Initial hardening	24 hrs.
Fully cured	7 Days.
It complies with ASTM D543,1308 LEED NC-2016, IEQC 4.2, LEM	
Surface Preparation	<p>New poured concrete:</p> <ul style="list-style-type: none"> •Allow to fully cure 28 days prior to application. •Remove any curing membrane by sanding or etching with a strong detergent. <p>Old concrete:</p> <ul style="list-style-type: none"> •Thoroughly clean tie 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. <p>Previously coated concrete:</p> <ul style="list-style-type: none"> •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 <p>Steel surface:</p> <ul style="list-style-type: none"> •The steel surface should be blasted to Sa 2 ½ surface quality to remove rust and mill scale, or any other efficient method and ensure that all traces of rust are removed. •Please refer to PROKEM technical office for further details on surface preparation and application procedure.
Expansion Joints	<ul style="list-style-type: none"> •Shall be installed in accordance with local building codes. •Never bridge an expansion, contraction or construction joint.

Mixing	<ul style="list-style-type: none"> •Stir the contents of part A with an electrical stirrer to disperse any settlement. •Add part B to part A and mix for 2 - 3 minutes with a low speed drill until a homogeneous and uniformly moist mix is obtained
Application	<ul style="list-style-type: none"> •Concrete surfaces can be primed with Sealer E115 or Sealer E43 – Wetseal for green concrete) and leave to dry overnight. •Metal surfaces can be primed with Kemprim M or Kemprim ZP. •Kemcoat Novolac should be applied on the surface with a paintbrush, roller at D.F.T 300 micron/coat. •3 coats are recommended. •Spread the coat to an even, smooth finish free from marks. • Allow the coat to cure overnight before recoating. •Allow to cure for 7 days before use.
Cleaning	Cleaning all tools and equipment immediately after use with PROKEM special solvent.
Theoretical coverage	<p>1st step:</p> <ul style="list-style-type: none"> •Epoxy Primer and bonding use as a primer coat 0. 2 – 0.3 Kg /m² (depending on substrate condition) <p>2nd step:</p> <ul style="list-style-type: none"> •Kemcoat Novolac (A+B) @ 0.4 Kg/m² for 300 micron D.F.T / coat
Packaging	Part (A+B) : 5 & 20 Kg Pails.
Shelf life & Storage	Kemcoat Novolac has a shelf life of 12 months if kept in their original packing in a 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 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 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.</p>
Additional Information	<p>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 the proper handling of our products.</p>