

Kemcoat E81

High-Build, Solvent Free, Chemical Resistant, Epoxy Coating

Description	Kemcoat E81 is a solvent free, two components thixotropic epoxy coating with outstanding mechanical and chemical properties.	
Where to use	A heavy duty protective coating for concrete and metal structures where outstanding chemical resistance is required, suitable for indoor applications.	
Advantages	• An easy to clean tough glossy finish. • Excellent resistance to a wide range of chemicals and corrosive vapors. • Excellent mechanical properties & non shrink drying. • May be used as a part of bridging laminates. • Produced in several Colors .	
Properties		
Solids (by volume)	100 %	LEED NC-2016, IEQC 4.2, LEM
Specific gravity	1.58 ±0.04 After Mixing	
Flash point	131 °C	
Gloss retention	High Gloss	
chemical resistance	Refer to PROKEM resistance table	
Abrasion resistance	Refer to PROKEM resistance table	
Application data:		
Application Methods	Brush, roller or airless spraying.	
Pot life @ 23 °C	2 hours (reduced at higher temp.)	
Dry to touch @ 23 °C	24 hours	
Dry to recoat @ 23 °C	24 hours min / 2 days max.	
Fully cured @ 23 °C	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 2½ surface quality to remove rust and mill scale, or any other efficient method (St 2) and ensure that all traces of rust are removed. • R.H. <85% • Recoating time is not more than 48 hours. • Please refer to PROKEM technical office for further details on surface preparation and application procedure.	
Expansion Joints	• Shall be installed in accordance with local building codes. • Never bridge an expansion, contraction or construction joint.	

Mixing	Stir the contents of pack A to disperse settlement, then add pack B and mix a uniform consistency is obtained.
Priming	• All concrete surfaces should be primed with a sealer coat of Sealer E115, Sealer E43, Wetseal for high humid concrete surfaces. • The primer should be allowed to cure overnight. • All metal surfaces should be primed immediately after preparation using Kemprim M or Kemprim ZP.
Application	• Apply the first coat of Kemcoat E81 with a brush to get good adhesion with the substrate and to obtain a continuous uniform film thickness. • Apply the second coat within the recoating interval to achieve the maximum adhesion between the two coats.
Cleaning	Tools & equipment's should be cleaned with special solvent immediately after use.
Theoretical coverage	0..3 Kg/m ² at 200 microns D.F.T A minimum of 2 coats are required
Packaging	Two packs (A+B) 5 & 20 Kg pails
Shelf life & Storage	Kemcoat E81 has a shelf life of 12 months if kept in their original packaging in a dry condition.
Precautions	• Kemcoat E81 may be applied at temperature down to 5 °C and at lower temperatures curing time will increase. • For cold weather application it is recommended to store Kemcoat E81 in a warm warehouse and only removed immediately before application. • Accelerated heating methods are forbidden. • Kemcoat E81 is not to be exposed to water, chemicals or mechanical stress before it is fully cured.
Health and Safety	• Use gloves to avoid contact with skin. • If skin comes in contact, wash immediately with soap and water. • Do not use solvents. • Eye contamination must be immediately washed with water, then seek medical treatment. • Working areas should be well ventilated.
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. 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.