

Pro Electric

Chemical resistant, electric insulating, non-toxic solvent – free epoxy coating

Description	Pro Electric is 100% solids, two components, hygienic, chemical resistant, and electrically insulating polyamine epoxy coating
Where to use	It is a heavy-duty protective coating for concrete / metal and electric conductors with high chemical resistant
Advantages	• An easy to clean tough glossy finish • Very good resistance to a wide range of chemicals and corrosive vapors • Non-toxic approved for food contact • Excellent mechanical properties • May be used as part of bridging lamination systems • Produced in several colors
Properties	
Density	1.57 ±0.06 Kg/Liter
Volume Solids %	100 %
Flash point	145 °C
Pot life @ 23 °C	40 minutes
Dry to re-coat	Minimum – 18 hours Maximum 48 hours @ 23 °C
Fully cured	7 days
Abrasion Resistance	Excellent
Electric voltage	10 – 13 KV
Surface Preparation	For new poured concrete: • Allow to fully cure 28 days prior to application • Remove any curing membrane by sanding and remove the etching with a strong detergent • The compression strength should not be less than 25 N/mm² and the tensile strength is at 1.5 N/mm² For the 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, then 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, or with the material mixed with a dry filler to a butter consistency Steel surface: • The steel surface should be blasted to (SA 2 1/2) surface quality to remove rust and mill scale • Steel should then be primed by Kemprim M or Kemprim ZRS Expansion joints: • Shall be installed in accordance with local building codes • Never bridge an expansion, contraction or construction joint

Mixing	It is important to remember that this coating has a limited pot life of 40 minutes • Stir the contents of pack A to disperse settlement, then add pack B and mix with a very low speed mixer, until completely blended • This will take about 2 to 3 minutes • Be careful not to introduce any air bubbles while mixing until a uniform consistency is obtained • Pro Electric should be used immediately after mixing
Application	• Prime the substrate with Sealer E43 in case of dry surfaces or Wetseal for wet surfaces • Apply Kemprim M & Kemprim ZRS for metal surfaces • Leave to dry for 24 hours - allow drying overnight • Apply the coating with a roller or airless spray until the surface is covered and leave it to cure (18 - 48 hours) between coatings • Apply another one or two more coats within the time interval • Leave for 7 days before final curing • Use Proflex LM sealant for expansion joints
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 Pro Electric 0.3 Kg/m² / 200 microns D.F.T • 2 coats are always recommended
Cleaning	• Clean all tools and equipment immediately after use with PROKEM special solvent
Packaging	1 Kg (A&B) pails 5 Kg (A&B) pails
Shelf life & Storage	12 months in its unopened Packs stored in cool, dry conditions
Health and Safety	• Use goggles, gloves, and a breathing mask when applying • Apply forced ventilation in confined spaces • skin splashes to be removed with hand cleaner, soap, and water • Eye splashes are to be washed with plenty of water • If ingested seek medical advice
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