

Kemcoat CTE

Solvent Containing Epoxy Coal-Tar High Build Coating

Description	Kemcoat CTE is two components, solvent containing epoxy/ coal tar coating system for protecting concrete and metal structures wherever the durability of epoxy coatings and economy of coal tar is required, while the color is of minor importance Kemcoat CTE is approved by the National Organization For Potable Water & Sanitary Drainage for sewerage applications
Where to use	As a waterproofing coating for waste water structures, to use on foundations below and above grade and any structure subjected to aggressive environment Particular Is useful in sewage works, effluent plants, dock and marine installations
Advantages	• High film builds in single application • Provides long term corrosion protection • Chemical & abrasion resistant • No priming necessary in most cases • Economic & versatile & easy to apply
Properties	
Color	Black
Solids by volume	70 % ±2
Specific gravity	1.35 (after mixing)
Chemical Resistance	The fully cured coat is resistant to: • Water - Sea Water Effluent water - Ground Water, Sewage Water - Distilled Water • Atmospheric Conditions Exhaust & sewage gases • Diluted mineral acids & alkali's • Many organic solvents Vegetable & mineral oils & fats • Salt solutions Barnacles & organic growths
Pot life @ 23 °C	8 hours
Temperature Resistance	Up to 150 °C in air & 80 °C in water
Dry to recoat @ 23 °C	Minimum 1 day Maximum 3 days
Fully cured	7 Days
New poured concrete: • Moisture content should be ≤ 4% • 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, or any other efficient method (St 2) and ensure that all traces of rust are removed. • Please refer to PROKEM technical office for further details on surface preparation and application procedure	
Surface Preparation	

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 until a uniform consistency is obtained • Adjust viscosity by adding PROKEM special solvent up to 5%
Application	• Apply the first coat of Kemcoat CTE with a brush to ensure 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 • Use airless spray, roller or brush for smaller areas or for touch –up • The substrate temperature Between +10/+30 °C & R.H <80% • Kemcoat CTE should not be exposed to water, chemicals or mechanical stress before it is fully cured • No Primer is required
Cleaning	Tools & equipment's should be cleaned with special solvent immediately after use.
Theoretical coverage	0.34 Kg/m ² for 175-micron D.F.T Recommended D.F.T 350 microns. 2 coats are recommended depending on application conditions
Packaging	Two packs system (A+B) 5 & 20 Kg Pails
Shelf life & Storage	12 months if kept in their original packaging in 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 • If ingested seek medical advice • Do not breath or inhale mist • When spraying, wear air mask
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