ENDURACRETE TC

TECHNICAL DATA SHEET 4 Pack Polyurethane Concrete Coating



A & I Coatings ENDURACRETE TC is a 4-pack pigmented, solvent free, 100% solids Polyurethane Cement Coating. It has excellent surface hardness and adhesion. It can be applied as a stand alone coating or as part of the Enduracrete SR system.

	 Concrete protection Food and Beverage Processing Floors Commercial Kitchens Commercial Bars Loading docks Manufacturing Facilities Secondary Containment areas Economical Coating system Top Coat for the Enduracrete SR system. 					
USES & BENEFITS	Benefits 1. Exceptionally hard wearir 2.Can be applied to Concre moisture PBW.(7 days gene 3.Coefficient Thermal expan similar to host concrete 4.Fast Cure and return to so 5.LOW Odour and NON DG	te up to 10% rrally) nsion very	Limitations 1. Minimum surface temperature should be at least 3°C above dew point. 2.Not UV Stable. (Can be overcoated with suitable UV stable finish-contact A&I Coatings) 3.Not available in Gloss-Only available in Low Sheen			
PHYSICAL PROPERTIES	Vehicle Type	Part A Water dispersed Polyurethane, Filler C-Cement/Lime/filler				
	Hardener	Isocyanate				
	Mixing Ratio	Part A 3kg, Part B 3kg, Part C Filler 4.5kg, Part D colour 0.18kg - 10.68kg kit				
	Finish	Low Sheen				
	Theoretical Coverage	Dependant on surface from 0.35kgm2-0.8kgm2/coat				
	Volume Solids	100%				
	Recommended Thickness	0.3kg/m2 per coat as a stand alone coating. Minimum 2 coats required as a stand alone coating				
	Compressive Strength	>50Mpa				
	Primer Required	Not for concrete, can be applied direct.				
	Pot Life/Work Time	7 minutes at 25°C (once product dispersed on floor). If left in bulk will exotherm quickly				
	Thermal Expansion Coefficient	ASTM C531 5.8 x 10-5/°C				
	Product Weight	1.5Kg/Litre 10.68kg kit delivers 7.1 Litres product				
ENGINEERING DATA	Abrasion Resistance	EN 13892-4 - AR 0.5				
		Enduracrete TC displays resistance to many common chemicals in spill or splash situations at ambient temperatures. The following chemicals are an example only. Consult A&I for specific applications.				
	Chemical Resistance	 Hydrochloric Acid (10 Nitric Acid (10%) Sulfuric acid (40%) Uric acid (concentrative Sodium hydroxide (10 Hydrogen peroxide (30 MEK 	ed) 1%) 1%)	 Motor Oil Kerosene Turpentine Skydrol Hydraulic Fluid Brake Fluid Toluene 	 Grease Organic Food Matter Wine Diesel Hydrocarbon solvents 	
		Some chemicals may cause surface staining from prolonged exposure without impacting the coating integrity. Data is available on request. Exposure based on spill and splashes cleaned within 24hrs				
	Dry Heat Resistance	Up to 120°C				
	Wet Heat Resistance	Up to 70°C as a stand alone coating and 90°C as part of Enduracrete SR system				
	Solvent Resistance	Excellent for many solvents				
	Durability	Excellent, but will chalk under UV exposure without damage to the integrity of the coating				

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CURING DATA	Substrate Temp.(°C)	Light Foot	Light Vehicle	Heavy Vehicle	Full Cure			
	25°	12hrs	24 hrs	48hrs	7 days			
	A minimum 10 hrs at 25 degrees C required between coats of Endurafloor TC. Earlier overcoating can cause blistering. Maximum overcoating time between coats is 36hrs at 25°C.							
SURFACE PREPARATION	New concrete should be allowed to cure to be at below 10% Moisture content PBW. Concrete should be sufficiently hard to support mechanical preparation (7 days generally) Surface must be sound, dry, free from all loose material, laitance, old coatings, dust and surface contaminants (e.g. oil, grease, chemicals, release/curing agents etc. Concrete must be mechanically treated by abrasive blasting or coarse grinding to achieve a clean anchor pattern for best adhesion-ICRI SP2-3 minimum. Concrete must have an effective damp proof membrane and concrete must be free from rising moisture. Concrete to be minimum 25Mpa compressive strength and 1.5Mpa pull off strength.							
APPLICATION DATA	Mixing	 1/Mix Part A and D Colour into a mixing Pail and mechanically mix for 30 seconds 2/ Add Filler C and mix for 90 seconds using mechanical mixer.Ensure an even lump free consistency is achieved. 3/Add Part B hardener and mechanically mix for 90 seconds until smooth lump free consistency achieved. Ensure mixing is to bottom,sides and top of Pail to achieve consistency. Once mixed, pour the complete contents on to floor to maximize working time. 						
	Application	Rubber Squeegee	and 10-12mm nap roller					
	Thinning	Not permitted	ed					
	Cleaning	Xylene or Acetone	e					
	Application Limits	Apply product between 8-30°C and ensure substrate is 3°C above dew point at time of application and initial cure						
PACKING & STORAGE	Packing	10.68kg kits	10.68kg kits					
	Storage	9 months if stored	nonths if stored in sealed containers away from heat and moisture					

All applicable statutory regulations must be observed in the application of this product. Users must first read the Safety Data Sheet for Enduracrete TC Users should familiarise themselves with all the safety aspects of the product prior to use. Please ensure the current Technical Data Sheet is consulted prior to specification or application of A & I Coatings products. A & I Coatings will in many instances provide Area Specific Instruction Sheets which contain detailed instructions on how to achieve desired results for specific areas. If the surface intended to be painted differs from the specification, please consult the A & I Coatings Technical team on 1800 819 585.

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation. Note: The figures quoted for pot life and drying/curing times are not definitive. They are dependent on onsite conditions, such as volume of material mixed, ambient and substrate temperatures, weather and ventilation. DISCLAIMER Since the use and application of this product is beyond our control, we cannot be held responsible for product field performance. The information presented above is the result of our considerable experience with this product but is not to be construed as a performance warranty. For additional information, phone our Customer Service Centre on 1800 819 585, or e-mail helpdesk@aicoatings.com Visit our website for more products: www.aicoatings.com



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