

EPICON T-500

(EP T-500)

EPICON T-500 is an anti-corrosive coating based on epoxy resin. The coating provides excellent physical properties such as adhesion, toughness, abrasion resistance, chemical resistance, and also is resistant to fresh water, petroleum products, crude oil, alkalis and weak acids.

This product is suitable for protection of tank interiors and is IMO PSPC type approved for COT. Airless spray can build a dry film thickness of 70-160 microns per coat.

TECHNICAL DATA

Type	Epoxy coating						
Recommended Use	For use in product carrier tanks, crude oil tanks, chemical tanks, cargo holds, drinking/potable water tanks, fresh water tanks, distilled water tanks etc.						
Information	Mixing Ratio	: Base : Hardener = 78 : 22 [by volume]					
	Color	: Grey, Light Grey, Red Brown, White					
	Flash Point	: Base = 17.7, Hardener = 15.5 [°C]					
	Density	: 1.39 [g/mL] (ISO:2811)					
	Volume solids (VS)	: 58 (+/-2) [volume %] (ISO:3233)					
	VOC	: 403 [g/L] (Method24)					
	Coverage (Theoretical)	: 0.121 - 0.276 [L/m ²]					
Film Thickness	: WET 121 - 276 [microns]						
	: DRY 70 - 160 [microns]						
(DFT 125microns)		5 °C	10 °C	20 °C	30 °C	40 °C	
Drying Time	Set-to-touch	3.5hrs.	2.5hrs.	1.5hrs.	30mins.	15mins.	
	Hard Dry	36hrs.	24hrs.	12hrs.	6hrs.	4hrs.	
Painting Interval	Min	36hrs.	24hrs.	12 (16) hrs.	6 (14) hrs.	4 (8) hrs.	
	Max *	28days	28days	21days	14days	10days	
	**	10days	10days	7days	5days	3days	
Pot Life	Induction time	10hrs.	7hrs.	5hrs.	3hrs.	1.5hrs.	
		30mins.	30mins.	20mins.	10mins.	-	
Condition of Application	Method of Application	: Airless spray, Brush, Roller					
	Weather	: Temperature: Minimum 5 (10) °C, Humidity: Maximum 85 %RH, Surface temperature: At least 5 °C above dew point***					
	For Airless Spray	Viscosity	: 1.0 - 1.8 Pa·s				
		Tip No.	: (GRACO) 619, 621, 623				
		Paint Output Pressure	: 14.7 - 17.7 [MPa]				
		Spray Speed	: 60 - 80 [cm/sec]				
	Thinner	: EPOXY THINNER B Thinning: 0 - 10 % by volume					
	Recommendable Surface Preparation:	New building : Dependent on yard procedures. Please consult your CMP representative.					
Repair/Maintenance : Remove oil and grease etc. Remove salt and other contaminants by (high pressure) fresh water cleaning and completely dry. Clean damaged area by abrasive blasting to the standard Sa2 1/2 (ISO 8501-1:2007) minimum or power tooling to St3 (ISO 8501-1:2007).							
Water jetting : Consult your CMP representative for recommendations. Type and degree of surface preparation depends on type and condition of actual substrate and on desired performance.							
Preceding Coats	: CERABOND 2000, EPICON ZINC RICH PRIMER B-2, EPICON T-500 PRIMER H						
Subsequent Coats	: -						

EPICON T-500 (Nov.2021rev)

<i>Packaging</i>	Two pack product
<i>Notes</i>	<ol style="list-style-type: none">1. Prior to use, consult the Safety Data Sheet (SDS) and follow the health and safety instructions. Precautionary notice is stated on the SDS and on the product label.2. Ventilation shall be carried out during and after the coating application until the applied paint is fully cured.3. Agitate the Base component thoroughly with a power agitator, then pour the Hardener and stir the mixture until homogeneous. If thinning is necessary for workability and/or for a good coating appearance, add the recommended thinner without exceeding the maximum dilution ratio as specified and mix well before use.4. Excessive thinning will reduce sagging resistance and may affect coating performance.5. Only mix the amount which can be used within the pot life.6. *Strictly follow the guidelines below:<ol style="list-style-type: none">(1) Cover the man-holes etc. so that the coating is not exposed to direct sunlight. The maximum painting interval is as shown with ** if the coating is exposed to direct sunlight.(2) Roughen the surface and apply a touch up coat if the coating is whitened due to condensation or water ingress.7. Please ensure to follow the maximum painting interval shown with ** if the coating is exposed to weather due to block stage application.8.*** On steel : at least 5 °C above dew point On coating : at least 3 °C above dew point9. For applications to cargo oil tanks, the painting interval is as shown with (). Application temperature is 10 °C or higher for that case. Please refer to EPICON T-500 Painting Procedures in a separate document for details including the surface preparation.10. Characteristically epoxy coatings chalk and fade upon exposure to sunlight.11. Density, VS and VOC contents are measured from product samples without thinning. Values may vary depending on colors, manufacturing batches, local requirements etc.12. For application condition and any other information, please consult with your local CMP office.

This product should be used only by professional applicators. Consult the current Chugoku Marine Paints Safety Data Sheets. Follow all local or national health, safety and environmental regulations. Observe all safety labels on packaging and containers. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only at ventilated areas. Handle with care.

This data sheet contains the best and latest of our knowledge on the date of issue on our laboratory test in Japan and practical application experience, and subject to change without notice. Since the paints are used under unexpected circumstances in some cases, guarantee can not be given except on the quality of those paints themselves.