

No. TD Servision Servision

: E-006 : 03 : 01/04/2024

PRODUCT DESCRIPTION & USES

PROTANK FG EPC-50500 is a two-components phenolic / novolac epoxy coating with high resistance to a wide range of chemicals and solvents. This product is used as an internal tank lining and can be applied to the concrete also. A tendency to chalk and yellowing in outdoor exposure does not detract from protective properties.

FEATURES

- Excellent Resistance to Wide Range of Chemicals and Solvents
- Good Toughness
- Good Resistance to Hot Water
- Good Corrosion Resistance
- FDA Approved

PRODUCT SPECIFICATION

Colors	:	Grey and White
Finish	:	Semigloss – Gloss
Volume Solid	:	70 <u>+</u> 2%
Specific Gravity	:	1.50 <u>+</u> 0.05 g/cc
Flash Point	:	25 °C
Packaging	:	5 & 20 Liters set
Storage Stability	:	24 Months. If it is stored in cool and dry place, also in its original not opened package. (Do not store below freezing point)

APPLICATION

Application Condition Mixing Ratio by Volume : 25 – 35 °C, 60 – 80% RH

		A Component (EPC - 50500)		B Component : (EPCH - 50500 PS)			
						= 4 : 1 (v/v)	
Thinner	: 1	THME-90100, THME-9	011	0, THME-90120			
Application Method	: [Airless Spray	Air (<u>Spray</u> <u>Br</u>	<u>ush/Ro</u>	<u>ller</u>	
Thinning Ratio by Volume	:	0 - 10%	15	- 20%	0 – 5%		
Tip Size for Airless Spray Gun	: ().017 – 0.019 inch		Air Pressure :	approx	. 150 bar/2100 p	si
Nozzle Orifice for Air Spray	: A	Approx. 1.5 – 2.0 mm		Air Pressure :	approx	. 3-4 bar/40-60 p	osi
Wet Film Thickness (WFT)	: 2	210 – 280 microns or 8	.4 -	- 11.2 mils			
Dry Film Thickness (DFT)	: 1	150 – 200 microns or 6	.0 -	- 8.0 mils			
Theoretical Coverage	: 4	1.60 m²/liter set (DFT =	15	0 microns)			
Pot Life	:	20°C		30°C		40°C	
		3 – 4 hours		2 – 3 hours	1	 – 2 hours 	

FILM PROPERTIES

Drying Time (@ DFT = 150 mic) :

- Surface Dry
- Hard Dry
- Full Cure
- Re-coating Interval

20°C	30°C	40°C		
40 – 60 minutes	30 – 50 minutes	25 – 45 minutes		
9 – 11 hours	5 – 6 hours	4.5 – 5.5 hours		
$\frac{1}{7}$ days (30 °C)				

: 7 days (30 °C)

: Minimum 12 hours (30°C)

Maximum 72 hours (30°C)*

P: +62 215930 3333 | F : +62 21 5924 694 | W : www.propanraya.com | E : info@propanraya.com

Provide adequate ventilation during application and drying.

Note : Epoxy coatings will characteristically chalk and fade upon exposure to sun light *For more details please contact PROPAN Technical Supervisor

RECOMMENDED COATING SYSTEM

Primer Coat	: PROGUARD HP EPP-20500
Intermediate Coat	: According to Specification
Finish Coat	: PROTANK FG EPC-50500
Recommended Dry Film Thickness	: 1 coat (150 microns / coat)

SURFACE PREPARATION

- 1. All surfaces should be clean, dry and free from contamination in accordance with SSPC-SP 1 solvent cleaning.
- In case of new steel, abrasive sand blasting to minimum Sa2 in accordance with the SWEDISH STANDARD SIS 05 59 00 and ISO 8501-1: 1988 or SSPC-SP 6 before applying recommended primer coating system.
- 3. For maintenance areas of breakdown, damage and etc., should be prepared to the specified standard (e.g. Sa 2 (ISO 8501-1) and primed (if any) prior to the application of PROTANK FG EPC-50500.
- 4. PROTANK FG EPC-50500 should always be applied over a recommended anti-corrosive (if any) coating scheme.
- 5. The Primer surface should be dry and free from all contamination (oil, grease, salt, etc.) and over coated with PROTANK FG EPC-50500 within the overcoating intervals specified.
- 6. Provide adequate ventilation during application and drying.

INSTRUCTION FOR USE

Stir well before use, preferable by means use mechanical mixer to ensure good homogeneity. Prepare one mixture (A+B) as much as needed for application. Firstly stir well Comp. A EPC-50500 until homogeneous, add Comp. B EPCH-50500 PS and mix thoroughly. Mix ratio Comp. A : Comp. B = 4 : 1 (by volume). Apply Mixed material could apply using airless spray, brush or roller. Use Thinner THME-90100 or THME-90110 or THME-90120 as solvent cleaner. Do not apply the mixed material after pot life time is over. Provide adequate ventilation during application and drying.

SAFETY PRECAUTION

Avoid contact with the skin and eyes. Wear suitable protective coating, such as overalls, goggles, dust mask, and gloves. Use barrier cream. Provide adequate ventilation during application. Do not breathe vapor of spray. This product is flammable. Do not smoke. Use only explosion proof equipment.

FIRST AID:

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Eyes	: In the case of accidental splashes, flush eyes with clear running water for 5 minutes while holding eyelids open. If irritation persist, seek medical attention.
Skin	: Wash off thoroughly with plenty of water and soap. Do not use solvent or thinner. Removed contaminated clothing. If irritation persist, seek medical attention.
Inhalation	: Remove affected person to fresh air area, loosen collar, and provide oxygen if breathing is difficult. If affected person is not breathing, administer CPR and seek emergency medical attention.

OTHERS

Additional information chemical resistance properties

(For more detail, please refers to Propan chemical resistance list)

Item	Result
Acetic acid 50%	12 months pass
Ammonia conc.	a month pass
Butanol	3 months pass
Benzene	a month pass
Caustic soda solution 30%	12 months pass
Diaceton alcohol	2 weeks pass
Ethanol 20%	12 months pass
Ethanol 50%	7 months pass
Ethanol 95%	Destroyed
Ethyl acetate	a month pass
Ethylene glycol	a month pass
Formaldehyde 40%	12 months pass
Glycerin	12 months pass
Hydrochloric acid 10%	12 months pass
Isopropanol	12 months pass
Kerosene	12 months pass
Leaded gasoline (petrol)	12 months pass
Lactic acid	12 months pass
Methanol	Destroyed

Item	Result
Methyl Ethyl ketone	a month pass
Octanol	12 months pass
Nitric acid 10%	12 months pass
Nitric acid 30%	2 months pass
Paraffin oil	12 months pass
Petroleum	12 months pass
Phosphoric acid 10%	12 months pass
Phosphoric acid 43%	12 months pass
Ricinoleic acid	12 months pass
Salt solution 15%	12 months pass
Seawater, artificial	12 months pass
Sulfuric acid 30%	12 months pass
Sulfuric acid 70%	6 months pass
Tall oil fatty acid	12 months pass
Trichloroethylene	a month pass
Tricesyphosphate	12 months pass
Water, d-ionized	12 months pass
Xylene	2 months pass

DISCLAIMER

This document contains information issued based on the best and latest of Propan's knowledge in accordance to laboratory testing and practical application experience. The end user must test the product's suitability for their specific application and purpose. Propan shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements. This document is subjected to change without further notice. Please consult Propan for any specific guidance on the suitability of this product for their needs or for any specific application practices.