

PROTANK PLUS EPC-50510

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PRODUCT DESCRIPTION & USES

PROTANK EPC-50510 PLUS is a two-component of epoxy phenolic coating with anti-corrosive protection. It is suitable for protection of tank interiors with high resistance to a wide range of chemicals, solvents as well as resistance to petroleum products, crude oil and weak acids. A tendency to chalk and yellowing in outdoor exposure does not detract from protective properties.

FEATURES

- Excellent Resistance to Wide Range Chemicals and Solvents
- Excellent Abrasion and Impact Resistance
- Good Toughness
- Excellent Corrosion Resistance
- Good Resistance to Hot Water

PRODUCT SPECIFICATION

Color : Grey and White
Finish : Semi Gloss – Gloss
Volume Solid : 67 ± 2%
Specific Gravity : 1.44 g/cc
Flash Point : 27 °C
Packaging : 5 & 20 Lt 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 : 25 – 35 °C, 60 – 80 %RH
Application Method : Airless Spray Air Spray Brush/Roller
Thinning Ratio by Volume : 5 – 10 % 15 – 20 % 0 – 5 %
Mixing Ratio by Volume :

A Component	:	B Component	=	5 : 1 (v/v)
(EPC-50510)	:	(EPCH-50510 PS)		

Thinner : THME-90100, THME-90110, THME-90120
Tip Size for Airless Spray Gun : 0.017 – 0.019 inch Air Pressure : approx. 150 atm/2500 psi
Nozzle Orifice for Air Spray : 1 – 1.5 mm Air Pressure : approx. 3-4 atm/40-60 psi
Wet Film Thickness (WFT) : 300 – 450 microns or 12 – 18 mils
Dry Film Thickness (DFT) : 200 – 300 microns or 8 – 12 mils
Theoretical Coverage : 3.30 m²/liter (DFT = 200 microns)
Pot Life :

20°C	30°C	40°C
4 – 5 hours	2 – 3 hours	1 – 2 hours

FILM PROPERTIES

Drying Time (@ DFT = 200 mic) :

20°C	30°C	40°C
50 – 70 minutes	30 – 50 minutes	15 – 25 minutes
6 – 9 hours	5 – 6 hours	3 – 4 hours

• Surface Dry :
• Hard Dry :
• Full cure : 7 days (30 °C)

Re-coating interval : Minimum 14 hours (30 °C)
Maximum 72 hours (30 °C)*

Provide adequate ventilation during application and drying.

Note : Epoxy coatings will characteristically chalk and fade upon exposure to sun light

*For more detail please contact PROPAN Technical Supervisor

RECOMMENDED COATING SYSTEM

Primer Coat	: PROGUARD HP EPP-20500
Intermediate Coat	: According to Specification
Finish Coat	: PROTANK PLUS EPC-50510
Recommended Dry Film Thickness	: 1 coat (200 microns / coat)

SURFACE PREPARATION

Concrete Surfaces

1. The surfaces should be clean, dry and free from debris and loose material.
2. The substrate must be free from contamination, such as oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion.
3. All surfaces, which are to be coated, must be at least 28 days old and have moisture content of less than 5%

Steel Surfaces

1. All surfaces should be clean, dry and free from contamination in accordance with SSPC-SP solvent cleaning.
2. 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 PLUS EPC-50510.
4. PROTANK PLUS EPC-50510 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 PLUS EPC-50510 within the overcoating intervals specified.
6. Provide adequate ventilation during application and drying.

INSTRUCTION FOR USE

Prepare one mixture (A+B) as much as needed for application.

Firstly stir well Comp. A **EPC-50510** until homogeneous, add Comp. B **EPCH-50510 PS** and mix thoroughly. Mix ratio **Comp. A : Comp. B = 5 : 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 :

For more detail, please refer to the latest Propan chemical resistance list.

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.