

PROTANK SF EPC-50520

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PRODUCT DESCRIPTION & USES

PROTANK SF EPC-50520 is a two-components solvent free epoxy modified, reinforced with glass flake and pigmented with special anti-corrosion inhibitive and excellent abrasive resistance. It is necessary for long term corrosion protection and excellent acid resistant properties. It provides good protection and excellent adhesion on steel and concrete surfaces, also gives good corrosion protection to the internals of steel storage tanks containing of products, including waste water treatment, crude oil, unleaded gasoline blends, MTBE and aviation fuels.

FEATURES

- Good Corrosion Protection
- Excellent Adhesion on Metal and Concrete
- Excellent Abrasion Resistance
- Resistance to Selected Range of Aromatic and Aliphatic Solvents

PRODUCT SPECIFICATION

Colours : Grey, White Cream, Red Oxide
Finish : Semigloss – Gloss
Volume Solid : 100 ± 2%
Specific Gravity : 1.35 ± 0.05 g/cc
Flash Point : >100 °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 : 25 - 35°C, 60 - 80% RH
Mixing Ratio by Volume :

A Component (EPC - 50520)	:	B Component (EPCH - 50520 PS)	= 2.5 : 1 (v/v)
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Thinner and Cleaner : THME-90100, THME-90120 for washing only
Application Method : Airless Spray Brush / Roller
Thinning Ratio by Volume : - -
Tip Size for Airless Spray Gun : 0.021 – 0.025 inch Air pressure : approx. 160 at; 2300 psi
Wet Film Thickness (WFT) : 400 – 500 microns or 16.4 – 20.5 mils
Dry Film Thickness (DFT) : 400 – 500 microns or 16.4 – 20.5 mils
Theoretical Coverage : 2.5 m²/liters set (DFT = 400 microns)
Pot Life :

20°C	30°C	40°C
40 – 50 minutes	40 – 45 minutes	20 – 30 minutes

FILM PROPERTIES

Drying Time (@ DFT = 400 mic) :

	20°C	30°C	40°C
• Surface Dry	8 – 10 hours	6 – 8 hours	3 – 4 hours
• Hard Dry	19 – 22 hours	15 – 17 hours	8 – 10 hours
• Full Cure	: 7 days		

Re-coating interval : Minimum 18 hours (30°C)
Maximum 3 days (30°C)*

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

Chemical Resistance Properties*

Reagent	% Weight Change		Result
	After 7 days immersed	After 30 days immersed	
10% Acetic Acid	1.94	3.68	Good
98% Sulfur Acid	0.76	-0.01	Excellent
Deionized water	0.60	1.28	Excellent
Ethanol	1.75	3.45	Good
Toluene	0.15	0.37	Excellent

*Tested in accordance with ASTM D543-14

RECOMMENDED COATING SYSTEM

Primer Coat : **PROGUARD HP EPP-20500**
 Intermediate Coat : **According to specification**
 Finish Coat : **PROTANK SF EPC-50520**
 Recommended Dry Film Thickness : 1 coat (400 microns / coat)

SURFACE PREPARATION

1. All surfaces should be clean, dry and free from contamination in accordance with SSPC-SP 1 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 SF EPC-50520.
4. PROTANK SF EPC-50520 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 SF EPC-50520 within the overcoating intervals specified.
6. Provide adequate ventilation during application and drying.

INSTRUCTION FOR USE

Firstly stir well Comp. A **EPC-50520** until homogeneous, add Comp. B **EPCH-50520 PS** and mix thoroughly with a power agitator before application. Mix ratio **Comp. A : Comp. B = 2.5 : 1 (by volume)**. Mixed material could apply using airless spray, brush or roller. Once the unit has been mixed it must be used within the working pot life specified. Use Thinner **THME-90100** 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 persists, seek medical attention.
- Skin** : Wash off thoroughly with plenty of water and soap. Do not use solvent or thinner. Removed contaminated clothing. If irritation persists, 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.

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.