

# PROGUARD UNDERCOAT EPU-30101

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## PRODUCT DESCRIPTION & USES

**PROGUARD UNDERCOAT EPU-30101** is two component polyamide cure vinyl epoxy based. Specially designed as a tie coat between epoxy primer and antifouling systems and also can be used as tie coat for a wide range of topcoats, Suitable on approved primers on aluminum, carbon steel, galvanized and stainless steel substrate.

## FEATURES

- Good Adhesion and Impact Resistance
- Adhesion Promoting Coating for Antifouling to be Applied on Top Epoxy Anti-Corrosion
- Excellent Water Resistance

## PRODUCT SPECIFICATION

Colours : Grey, Buff  
 Finish : Matt  
 Volume Solid : 62 ± 2%  
 Specific Gravity : 1.45 ± 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 : 25 – 35 °C, 60 - 80% RH  
 Mixing Ratio by Volume :

A Component <b>(EPU - 30101)</b>	:	B Component <b>(EPUH - 30101 PS)</b>	= <b>5 : 1 (v/v)</b>
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Thinner and Cleaner : THME-90100, THME-90110, THME-90120  
 Application Method : Airless Spray      Air Spray      Roller/Brush  
 Thinning Ratio by Volume : 5 – 10%      15 – 30%      0 – 5%  
 Tip Size for Airless Spray Gun : 0.017 – 0.019 inch      Air pressure : approx. 160 bar/2300 psi  
 Nozzle Orifice for Air Spray : 1 – 1.5 mm      Air pressure : approx. 3 - 4 bar/40 - 60 psi  
 Wet Film Thickness : 120 – 160 microns or 4.8 – 6.4 mils  
 Dry Film Thickness : 75 – 100 microns or 3 – 4 mils  
 Theoretical Coverage : 6.20 m<sup>2</sup>/liter set (DFT = 100 microns)  
 Pot Life :

20°C	30°C	40°C
6 – 7 hours	5 – 6 hours	3 – 4 hours

## FILM PROPERTIES

Drying Time (@ DFT = 100 mic) :

20°C	30°C	40°C
50 – 60 minutes	20 – 30 minutes	15 – 25 minutes
7 – 8 hours	4 – 5 hours	3.5 – 4.5 hours

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

Re-coating interval : Minimum 4 hours (30°C)  
 Maximum 3 days\* (30°C)

Provide adequate ventilation during application and drying.

\*For more details please contact PROPAN Technical Supervisor

## RECOMMENDED COATING SYSTEM

Primer Coat	: <b>PROGUARD Series, PROMASTIC Series</b>
Intermediate Coat	: <b>PROGUARD UNDERCOAT EPU-30101</b>
Finish Coat	: <b>According to specification</b>
Recommended Dry Film Thickness	: 1 coat (100 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 prior to the application of PROGUARD UNDERCOAT EPU-30101.
4. PROGUARD UNDERCOAT EPU-30101 should always be applied over a recommended anti-corrosive coating scheme.
5. The Primer surface should be dry and free from all contamination (oil, grease, salt, etc.) and overcoated with PROGUARD UNDERCOAT EPU-30101 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 **EPU-30101** until homogeneous, add Comp. B **EPUH-30101 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, 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.