

PROTHANE TOPCOAT PUT-50805

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PRODUCT DESCRIPTION & USES

PROTHANE TOPCOAT PUT-50805 is a two-components polyurethane enamel made from polyurethane aliphatic acrylic. This product is used as a top coat on a wide variety of substrate such as steel, iron, concrete, and asbestos. It provides good weather resistance and high mechanical properties.

FEATURES

- Good Gloss Resistance
- Good Weather Resistance
- Non-Chalking and Non-Yellowing
- Good Abrasive Resistance
- Good Impact Resistance

PRODUCT SPECIFICATION

Color : Available on Propan Color Card
 Finish : Gloss
 Volume Solid : 60 ± 2%
 Specific Gravity : 1.25 ± 0.04 g/cc
 Flash Point : 27 °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 Component	
(PUT - 50805)	:	(PUTH - 50805 PS)	= 9 : 1 (v/v)

Thinner : THPU-71352 M, etc
 Application Method : Airless Spray Air Spray Brush/Roller
 Thinning Ratio by Volume : 0 – 5% 25 – 30% 0 – 5 %
 Tip Size for Airless Spray Gun : Approx. 0.43 mm (0.017 inch) Air Pressure : approx. 110 bar/1600 psi
 Nozzle Orifice for Air Spray : Approx. 1 – 1.5 mm Air Pressure : approx. 3-4 bar/40-60 psi
 Wet Film Thickness (WFT) : 80 – 125 microns or 3.1 – 4.9 mills
 Dry Film Thickness (DFT) : 50 – 75 microns or 2.0 – 3.0 mills
 Theoretical Coverage : 12.00 m²/liter set (DFT = 50 microns)
 Pot Life :

20°C	30°C	40°C
5 – 6 hours	3 – 4 hours	1 – 2 hours

FILM PROPERTIES

Drying Time (@ DFT = 50 mic) :

	20°C	30°C	40°C
• Surface Dry	40 – 60 min	20 – 30 min	15 – 25 min
• Hard Dry	10 – 12 hours	5 – 6 hours	4.5 – 5.5 hours

• Full Cure : 7 days (30 °C)
 Re-coating Interval : Minimum 6 hours (30 °C) without sanding
 : Maximum 30 days (30 °C)*

Provide adequate ventilation during application and drying.

*For more details please contact PROPAN Technical Supervisor

RECOMMENDED COATING SYSTEM

Primer Coat	: According to Specification
Intermediate Coat	: According to Specification
Finish Coat	: PROTHANE TOPCOAT PUT-50805
Recommended Dry Film Thickness	: 1 coat (50 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 PROTHANE TOPCOAT PUT-50805.
4. PROTHANE TOPCOAT PUT-50805 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 PROTHANE TOPCOAT PUT-50805 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 **PUT-50805** until homogeneous, add Comp. B **PUTH-50805 PS** and mix thoroughly. Mix ratio **Comp. A : Comp. B = 9 : 1 (by volume)**. Apply Mixed material could apply using airless spray, brush or roller. Use Thinner **THPU-71352 M** 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.

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.