

# PROTHANE TOPCOAT PUT-50800

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## PRODUCT DESCRIPTION & USES

**PROTHANE TOPCOAT PUT-50800** 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 excellent weather resistance and high mechanical properties.

## FEATURES

- Excellent Gloss Resistance
- Excellent Weather Resistance
- Non-Chalking and Non-Yellowing
- Good Abrasive Resistance
- Good Impact Resistance
- Good Resistance to Splash of Mild Chemicals and Water

## PRODUCT SPECIFICATION

Color : Available on Propan Color Card  
 Finish : Gloss  
 Volume Solid :  $60 \pm 2\%$   
 Specific Gravity :  $1.25 \pm 0.04$  g/cc  
 Flash Point :  $27^\circ\text{C}$   
 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 :  $25 - 35^\circ\text{C}$ , 60 – 80% RH  
 Mixing Ratio by Volume :

A Component	:	B Component	=	4 : 1 (v/v)
(PUT - 50800)	:	(PUTH - 50800 PS)		

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 3.2 – 5.1 mills  
 Dry Film Thickness (DFT) : 50 – 75 microns or 2.1 – 3.1 mills  
 Theoretical Coverage : 12.00 m<sup>2</sup>/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	: <b>PROTHANE TOPCOAT PUT-50800</b>
Recommended Dry Film Thickness	: <b>1 coat (50 microns / coat)</b>

## 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-50800.
4. PROTHANE TOPCOAT PUT-50800 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-50800 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-50800** until homogeneous, add Comp. B **PUTH-50800 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 **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

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