



# PAINT PROTECTION FILM

## PPF-Tpro Technical Data Sheet

PPF-Tpro offers breakthrough technology for paint protection applications utilizing an advanced, self-healing, solvent resistant top-coat formulation allowing for easy installation as well as increased longevity. The product is available in 60" widths.

### PAINT PROTECTION FILM - Features & Benefits

- > Provides invisible protection from damage caused by rocks, salt, insects, and other road debris
- > A proprietary, self healing top-coat that is scratch and crack resistant with a high-gloss finish
- > Transforms the appearance of traditional paint to a matte finish when using PPF Matte
- > Superior optical clarity

### PAINT PROTECTION FILM - Application & Storage

- > For detailed product information and installation videos of SunTek Paint Protection Films visit our website: [www.suntekfilms.com](http://www.suntekfilms.com)
- > Recommended installation environment temperature should be within 60°F to 90°F (15.5°C - 32°C)
- > Recommended installation solution (tack solution): (less than)10% Isopropyl alcohol + 90% distilled water
- > Required product storage conditions of 60°F to 90°F

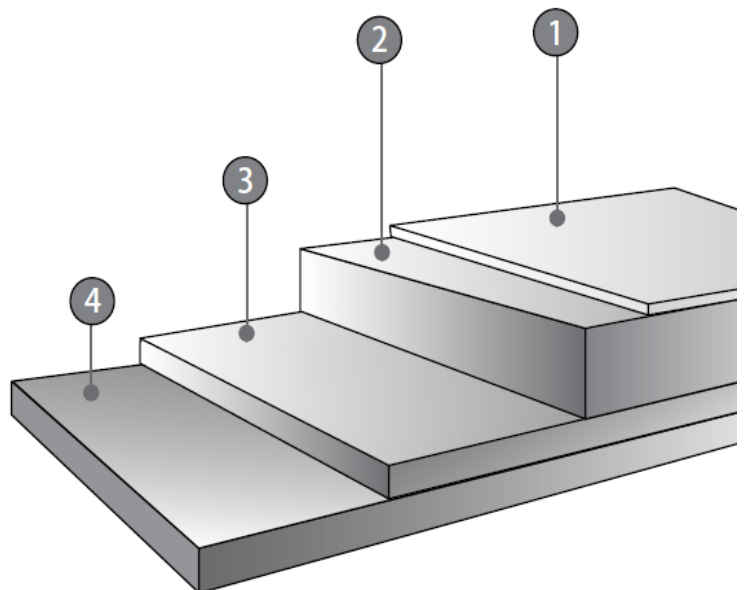
### PRODUCT CONSTRUCTION

**1** **Top Coat - 0.5 mil**  
Flexible, self-healing polyurethane coating

**2** **Urethane - 6 mil**  
Impact-resistant 6mil urethane formulated for excellent UV, heat and water resistance

**3** **Adhesive**  
Self-crosslinking acrylic copolymer adhesive formulated for balanced tack, adhesive and cohesive properties.

**4** **Liner - 3.5 mil**  
Matte, polyester release liner



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Paint Protection Film (PPF) meets or exceeds the minimum specification values shown below.

APPEARANCE PERFORMANCE		
Film Fitting Bubble	Visual Invisibility	Visual Inspection
Film Fitting Stain	Visual Invisibility	Visual Inspection
Crystal&Bump point	0.1-0.6mm/Uncountable	Visual Inspection
	0.7-2.9mm/≤20	Visual Inspection
Cotting Mat	≥3mm/Allow 1	Visual Inspection
	Visual Invisibility	Visual Inspection
Adhesive Surface Line	Visual Invisibility	Visual Inspection

\*Testing Method Direction:

- About coating the matte strip, after removing the HC protective film, natural visual inspection of the sample surface;
- About Crystal&Bump point, basis of the sampling area and the densest area, the size and quantity are evaluated by the counting interval of 12.7cm\*12.7cm.

PHYSICAL PERFORMANCE INDEX		
Gloss Rate(60°)	≥90(%)	GB 8807
Weight(Final Product)	350-380(g/m2)	GB/T 4669
Weight(Glue)	25-30(g/m2)	GB/T 4669
Thickness(Protective Film)	45-55(um)	GB/T 7125
Thickness(TPU&HC)	140-190(um)	GB/T 7125
Thickness(PET Liner)	75-85(um)	GB/T 7125
Elongation rate at Break	≥70(%)	GB/T 1040.1
Dimensional Stability MD	≤0.5(mm)	FTM 14
Dimensional Stability CD	≤0.4(mm)	FTM 14
Peel Adhesion	≤0.3(N/25mm)	GB/T 2792
Initial Adhesive	≥9(N/25mm)	FTM 9
24h, 180°Peel	≥15(N/25mm)	GB/T 2792
Storage AgingPeel	≥12(N/25mm)	GB/T 2792
Application Aging Peel	≥20(N/25mm)	GB/T 2792

\*Testing Method Direction:

- The elongation at break of the HC protective film shall be as specified in GB/T 1040.1 Determination of Tensile Properties of Plastics, Part 1 General, and the elongation at break of the finished product when the HC coating is broken during the tensile testing
- Storage of aging peeling force means that the sample is cured at 65 ° C for 72 hours, and the peeling force test is carried out according to GB/T 2792;
- Application of aging peeling force means that the sample is cured after being cured at 65 ° C for 72 hours, and then cooled to a natural temperature for 180 ° peeling force testing.

CHARACTERISTIC INDEX		
Scratch Repairment	Heat repairable	(0.1mm) Copper brush & drying gun
Water Contact Angle	≥103°	DL/T864
Acid and Alkali Resistance	No visible visible coating drawbacks	Experimental Method
Yellowing Resistance	≤1	QUV Method
Anti-stain	140-190(um)	Rainyl Method

\*Testing Method Direction:

- About Scratch Repairment ,use copper wire brush with a thickness of 0.1mm or less. After the coating surface is brushed 10 times in a circle, after heating with a baking gun or 100 °C boiling water, the visual inspection of the micro-scratch disappears
- About Acid and Alkali Resistance, 10% solubility hydrochloric acid, 0.1mol/L sodium hydroxide solution, after being applied to the surface of the sample for 24h, the appearance of the sample is free of visible visible bubbles, cracks and other coating defects
- About Anti-stain, use the equipment with UV radiation, heating and spraying to destroy the sample. The parameter setting refers to the corresponding regulations of GB/T 16422.2, among which the spray The water is sprayed with general industrial water.

## PACKING SPECIFICATION

Item No.	PPF-Tpro
Width	14.5~15.1(m)
Length	1.515~1.525(m)
Package	Carton box& Pallet

