THE BEST PAINT PROTECTION
YOU'LL NEVER SEE

Solar Gard® SAINT-GOBAIN

Clearshield® Pro X
PAINT PROTECTION FILM

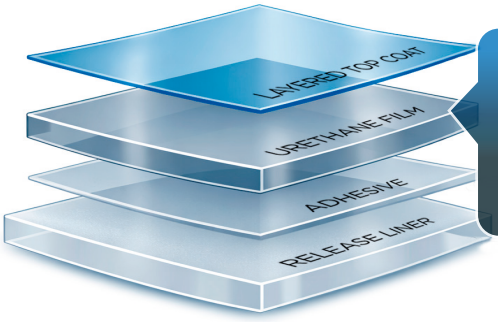
Solar Gard's X range of PPF is specially formulated paint protection film

Consisting of high-performance pressure sensitive adhesive, ultra-clear TPU film and unique self-healing coating to protect automotive paint surfaces from harmful effects of stone chips and abrasion.

WHAT IS CLEARSHIELD® PRO X?

Clearshield Pro X is a clear Aliphatic Urethane film (TPU) adhesive coated product engineered to protect surfaces from stains, abrasion and minor surface impact. Clearshield Pro X will bond to a multitude of surfaces and is highly flexible with the ability to handle irregular curved shapes.

- Virtually invisible high grade polyurethane barrier
- High gloss with excellent stain resistance
- High chemical resistance
- High resistance against yellowing
- Improved adhesive for easy application with no glue lines when repositioning
- Highly stretchable material makes it easy to wrap door edges, door handle areas, bumpers and mirrors without the use of a steamer
- Low surface texture/orange peel



PRODUCT CONSTRUCTION

Overall thickness:	8 mil
Thickness:	6 mil
Adhesive:	1.2 mil
Matte liner thickness:	3 mil

Solar Gard's Clearshield® PRO X is a virtually undetectable paint protection film that provides vehicles with a durable and optically clear barrier for chip-prone surfaces.

1 - Protects surfaces from damage caused by gravel, sand, stones, road salt and insects

2 - High gloss surface and optical clarity allows original paint color to shine through

3 - Easy maintenance

4 - In the unlikely event that the product is damaged, it can be easily peeled away exposing undamaged factory paint like the day Clearshield Pro X was installed

5 - Up to 10 year limited manufacturer's warranty*

6 - Will remain optically clear and stay in place

7 - Won't crack, peel, bubble or harm paint finish upon removal

8 - Warrantied against excessive yellowing and other manufacturer defects

*For further informations check the detailed Sales terms and Conditions on www.solargard.eu

Clearshield PRO X delivers superior protection with a 10 year warranty!*

SAINT-GOBAIN

Clearshield® ProX
PAINT PROTECTION FILM

VEHICLES - PUBLIC TRANSPORT

TYPICAL PROPERTIES

DESCRIPTION	SPECIFICATIONS
Adhesive Deposit *(GSM)*	1.2 mil
Elongation	>250%
Haze	<3.0%
Light Transmission Test method: Byk Gardner Hazeguard	88% Min.
Clarity	88% Min.

TECHNICAL DATA

	TEST ITEM	TEST METHOD	NOMINAL VALUE
PHYSICAL PROPERTIES	TPU Thickness	Micrometer	6 mil (150 microns)
	Product Thickness (HC+TPU+PSA)	Micrometer	7.5 mil (190 microns)
	Release Liner Thickness	Micrometer	3 mil (75 microns)
	Tensile Strength at Break	ASTM D882	>20 MPa (200 kg/cm² or 2900 psi)
	Elongation at Break		>250%
	Break Strength		29.5 lbs./in (51 N/cm)
PERFORMANCE DATA	Gloss	Adhered to paint panel. 60° gloss per ASTM D523	80 GU MIN
	Water Immersion	Adhered to paint panel, 40°C in water	
	Heat Aging	Adhered to paint panel, 80°C 168 hrs	Pass, NDE
	Chemical Resistance	Diesel (drop test, 10 min) SAE motor oil (drop test, 10 min) Hydraulic oil (drop test, 10 min) Water and soap resistance (drop test, 10 min) Battery acid (drop test, 10 min)	Pass, NDE Pass, NDE Pass, NDE Pass, NDE Pass, NDE
	Impact/Chip resistance	SAE J400 (Gravelometer)	10*, Pass, no ruptures
	Stain Resistance - Sharpie Marker	Lines were drawn on the film with a permanent Sharpie Marker. Wiped with a dry towel.	Slight Visual Residue

HC = Hard Coat, **TPU** = Thermal Plastic Polyurethane, **PSA** = Pressure Sensitive Adhesive **NDE**: No Detrimental Effect
Note: All values are nominal values and should not be used for specification purposes.

SHELF LIFE:
Solar Gard recommends using Clearshield Pro X within one year from date of purchase.
Optimum storage conditions for Clearshield Pro X are 4°C to 32°C, and 40% to 60% relative humidity.

APPLICATION CONDITIONS:

- The vehicle's surface and the ambient air temperature should be between 20°C to 30°C.
- Application should be done in a dust free area and away from direct sunlight.
- Good surface preparation is essential.
- Do not use adhesion promotors nor agressive degreasing on large surfaces.
- IPA can be used to degrease the edges.

Product Code **Clearshield Pro X**	**60" (152 cm)**	SF7CSPROGX6050
	72" (183 cm)	SF7CSPROGX7250

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SAINT-GOBAIN

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