ROCK SHIELD

TECHNICAL DATA SHEET

Solar Gard Rock Shield

Gloss Paint Protection Film · 200 µm

PRODUCT DESCRIPTION

Solar Gard Rock Shield is a 200 µm, high-gloss paint protection film manufactured by **Solar Gard (Saint-Gobain) in San Diego, California**. It is built on premium thermoplastic polyurethane (TPU) from **Lubrizol, USA** with a high-performance acrylic adhesive from **Ashland, USA**. A self-healing elastomeric clear coat makes light scratches disappear with heat or sunlight, and its hydrophobic surface sheds water, dirt and road grime.

KEY FEATURES

- ✓ 12-year warranty
- ✓ Self-healing top coat
- ✓ Anti-yellowing
- ✓ Hydrophobic surface
- ✓ High gloss · > 90 GU
- ✓ Anti-scratch

CONSTRUCTION



Clear coat (self-healing)	13 µm
Polyurethane (TPU)	159 µm
Acrylic adhesive	28 µm
Release liner (removed)	75 µm

TOTAL THICKNESS (EXCL. LINER): 200 µm

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST CONDITION
Tensile strength at break	**27.6 MPa (4,000 psi)**	Test rate 500 mm/min (20 in/min)
Elongation at break	**> 400%**	Test rate 500 mm/min (20 in/min)
Tear strength	**> 60 kN/m**	Die C, 500 mm/min
Peel adhesion – 20 min	**> 4 N/cm**	Dwell 20 min @ 23°C
Peel adhesion – 24 h	**> 4 N/cm**	Dwell 24 h @ 23°C
Peel adhesion – 168 h	**> 7 N/cm**	Dwell 168 h @ 80°C
Stone chip resistance	**No detrimental effect**	4.73 L gravel @ 70 psi, −29°C
Heat aging	**No detrimental effect**	168 h @ 80°C

Manufactured by Solar Gard® (Saint-Gobain) · 4540 Viewridge Ave, San Diego, CA 92123, USA

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Verify every roll: enter its serial number at rockshieldpure.com

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OPTICAL & WEATHERING

PROPERTY	TYPICAL VALUE	TEST CONDITION
Gloss	**> 90 GU**	60° geometry
Clarity	**> 95%**	Original paint appearance retained
Xenon arc weathering	**ΔE < 1.5 · 80% gloss retention**	4,500 kJ/m² exposure
EMMAQUA outdoor aging	**ΔE < 1.5 · 90% gloss retention**	28,000 MJ/m² (≈ 3.5-year exposure)

CHEMICAL & STAIN RESISTANCE

Carburetor cleaner spray	**Pass**	Acetone	**No detrimental effect**
Gasoline	**No detrimental effect**	Diesel	**No detrimental effect**
Motor oil	**No detrimental effect**	Vinyl & rubber protectant	**No detrimental effect**
Isopropyl alcohol (100%)	**No detrimental effect**	Soap & water	**No detrimental effect**

Solvents and fluids: 30 min immersion, rated after 24 h. Carburetor cleaner: 60 s spray exposure.

STORAGE & APPLICATION

ITEM	VALUE	NOTES
Shelf life	**2 years**	From date of purchase, unopened
Storage	**22°C (72°F) @ 50% RH**	Original packaging, out of direct sun
Service temperature	**−40°C to +80°C**	Installed film
Installation conditions	**18–24°C · RH < 60%**	Indoors, no direct sun or wind
Application method	**Wet application**	Slip solution, professional tools

12
YEARS

LIMITED WARRANTY

Covers yellowing, cracking, peeling, blistering and loss of optical clarity under normal use. Valid when installed by an authorized Rock Shield installer and registered with the roll's serial number.

Disclaimer. Values are typical laboratory results, given as a guide and not as a specification; results vary with surface, environment and installation. Users should confirm suitability for their application. Warranty coverage is governed solely by the Rock Shield limited warranty terms.