

Scar-Guard®

Composite Mechanical Protection for Directionally Drilled Pipelines

The Patented Scar-Guard® Line Of Products Is Designed To Protect Field Joint And Mainline Coatings From The Mechanical Stresses And Scarring Associated With Horizontal Directional Drilling (HDD), Boring And Micro-Tunneling Of Pipelines.

Scar-Guard® is a composite abrasion resistant overcoat comprised of fiberglass cloth and pre-impregnated flexible resin that is activated by water and cured within minutes. This sacrificial outer laminate system protects preapproved anticorrosion field joint coatings and mainline coatings such as FBE, liquid epoxies, shrink sleeves, and tapes. The Scar-Guard® line of products minimizes the need for costly repairs after pull back, and provides robust protection of the underlying pipeline coating. U.S. Patent #8522827

Bury, Bore Or Drill With Confidence

- Provides unparalleled protection against impact, abrasion, gouge, punctures and tears that may result from directional drilling, rough handling, native backfills or severe in-service conditions

Cure Options For Any Environment

- Fast cure, slow cure, UV-Curable, UV-Resistant – all available options to suit a wide range of project cycle time requirements and construction conditions

Non-Shielding

- Suggested voltages for high-spark voltage testing as per NACE SP0188 pass through Scar-Guard® to ensure the anticorrosion coating can be tested for integrity after pull-through and protected for the lifetime of the asset.

Fast, Easy Installation

- Scar-Guard® products are simply wrapped onto the existing coatings surface and activated by water. Pre-impregnated moisture cured polyurethane resin means - no field mixing or saturation required!

PROPERTIES	TEST METHOD	SCAR-GUARD®	SCAR-GUARD® XL
Total Thickness	SSPC-PA-2	68 mils	104 mils
Thickness per Layer	SSPC-PA-2	34 mils	13 mils
Density	ASTM D792	n/a	1.15 g/cm ³
Colour	Visual	Grey	Grey

PROPERTIES	TEST METHOD	SCAR-GUARD®	SCAR-GUARD® XL
Resin Type	Per Manufacturer	Polyurethane	Polyurethane
Impact Resistance	ASTM G14-04	48 Joules	49 Joules
Gouge Resistance	CSA Z245.20.10	16 mils at 50 kg	24 mils at 50 kg
Abrasion Resistance	ASTM D4060	1667 cycles/mil	1467 cycles/mil
Compressive Strength	ASTM D695	27,182 psi	24,000 psi
Tensile Strength	ASTM D638	n/a	248 MPa
Dielectric Strength	ASTM D149	263 V/mil	114 V/mil
Adhesion to existing coating (FBE)	ISO 21809-3 Annex C	Rating 1	Rating 1
Hardness (Shore D)	ASTM D2240	78 @ < 75°F	78 @ < 75°F
Cure Schedule*			
Pot Life (Gel Time)	100-gram resin mass	12 min	8 min
Hard Dry Time (Shore D > 70)	ASTM D2240	30 min	28 min

*Cure times were tested at an ambient temperature of 24°C (75°F).

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