



# ScarGuard®

ScarGuard® is designed to protect field joint and mainline coatings from the mechanical stresses and scarring associated with horizontal directional drilling (HDD), thrust boring, direct pipe and micro-tunneling installation of pipelines.

ScarGuard® is a composite Abrasion Resistant Overcoat (ARO) comprised of fiberglass fabric and pre-impregnated flexible resin that is activated by water and cured within minutes.

This sacrificial outer laminate system protects pre-approved anti-corrosion field joint coatings and mainline coatings such as FBE, liquid epoxies, shrink sleeves, and tapes. ScarGuard® minimizes the need for costly repairs after pull back and provides robust protection of the underlying pipeline coating.

## APPLICATIONS

- Horizontal Directional Drilling
- Thrust Boring
- Microtunneling
- Direct Pipe
- Trenchless Pipeline Construction
- Field Joints

## FEATURES

- Excellent abrasion resistance for protecting coated pipes subjected to trenchless pipeline installation
- Prevents gouging and coating damage
- High impact resistance
- Easily installed over field and factory applied coatings



## BENEFITS:

- Superior mechanical protection
- Non-shielding
- Eliminates the need to re-pull pipe
- Prevents gouging and coating damage
- Ensures future pipeline integrity
- Prevents future external corrosion
- No environmental hazards

# QUALIFICATION DATA

MATERIAL PROPERTIES	SCARGUARD	SCARGUARD XL	SCARGAURD E (THERMOWRAP HDD)
Thickness	0.034 inch (0.86 mm)	0.013 inch (0.33 mm)	0.034 inch (0.86 mm)
Resin Type	MCU	MCU	Epoxy
Application Temperature	32°F - 150°F (0°C - 65°C)	32°F - 150°F (0°C - 65°C)	50°F - 250°F (10°C - 121°C)
Working time @ 75 F (24°C)	12 minutes	25 minutes	65 minutes
Set Time @ 75 F (24°C)	30 minutes	45 minutes	2.5 hours
Impact Resistance ASTM-G14 (100 mils)	421 in lb (47.6 J)	431 in lb (48.7 J)	192 in lb (21.7 J)
Abrasion Resistance ASTM D-4060 (cycles/mil)	1,667	1,467	3,333
Gouge Resistance Partech (50 kg load)	Pass	Pass	Pass

**WARRANTY** CSNRI routinely implements product improvements. Please contact your local distributor or office for the most current product specifications. CSNRI warrants the quality of this product when used according to directions.

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**ISO 9001 Certified**

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