



DiamasShield™

The DiamasShield™ system combines a high-strength fiberglass composite with an optional superior quality topcoat to provide optimal mechanical and abrasion protection during trenchless construction activities. It is an ideal solution for the highly abrasive environments experienced by pipes and field joints that are caused by dragging, drilling, and scratching, which are commonplace with Horizontal Directional Drilling (HDD), thrust boring, and other similar operations.

DiamasShield™ is composed of three components: an epoxy polymeric matrix reinforced with a fiberglass mat, and an optional two-part 100% solids epoxy topcoat. Together, the composite and epoxy topcoat combine to provide optimal mechanical protection, abrasion resistance and thickness build-up to ensure the future integrity of newly constructed buried pipelines. The DiamasShield™ Desert Wrap system is specially formulated for installation in hot environments such as deserts and jungles.

Once installed, DiamasShield™ cures quickly and builds coating thickness to protect welds, joints, and complete lengths of pipe from abrasion.

Applications

- Horizontal Directional Drilling
- Thrust boring
- Microtunneling
- Trenchless construction
- Field joints

Features

- Excellent abrasion resistance for protecting coated pipes subjected to trenchless construction operations
- Economically builds abrasion resistant coating thickness on field joints
- High performance in low temperatures
- Prevents gouging and coating damage
- Strong chemical resistance
- Minimal surface prep

BENEFITS:

- Eliminates the need to re-pull pipe
- Prevents gouging and coating damage
- Ensures future pipeline integrity
- Prevents future external corrosion
- No pipe cutting or welding
- No environmental hazards



QUALIFICATION DATA

PROPERTIES	DIAMASHIELD	DIAMASHIELD DESERT WRAP
Operating Temperature Range	-77°F - 180°F (-60°C - 82°C)	-77°F - 300°F (-60°C - 149°C)
Application Temperature Range	50°F - 140°F (10°C - 60°C)	80°F - 180°F (27°C - 82°C)
UV Protection	Excellent	Excellent
Abrasion Resistance	Excellent	Excellent
Set Time	1 hour at 77°F (25°C)	90 minutes at 113°F (45°C)

Warranty: ClockSpring|NRI routinely implements product improvements. Please contact your local distributor or office for the most current product specifications. ClockSpring|NRI warrants the quality of this product when used according to directions.



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