

# Wrapid Shield™ XL/XL-FC

## Fiberglass Mechanical Protection for Field Joints on Directionally Drilled Pipelines

Wrapid Shield™ XL/XL-FC is a fiberglass cloth, preimpregnated with a resin that can be activated by salt or freshwater to coat and protect any diameter of pipe within minutes. The product is formulated to resist shear, impact and abrasion on pipe coating systems above and below ground such as fittings and joints on all mill-coated pipe and as an outer wrap over heat-shrinkable sleeves for added mechanical protection.

### Superior Mechanical Protection

- Provides unparalleled protection against impact, indentation, abrasion, punctures and tears that may result from directional drilling, rough handling, native backfills or severe in-service conditions.
- Designed to protect the underlying field joint coating from the effect of forces associated with directional drilling.

### Chemical Resistance

- Resistant to corrosive salt water, soil acids, alkalies and salts, common chemicals, chemical vapors, and exposure to outdoor weathering and sunlight.

### Long Term Corrosion Protection

- In combination with a heat-shrinkable sleeve the composition of the products is such that they provide an effective barrier to water and oxygen which provides effective corrosion protection and soil stress resistance.

### Different Cure Speeds Available

- Wrapid Shield™ XL is available in 2 configurations depending on project or environmental conditions.
- Wrapid Shield™ XL is the standard version and has an application time of 20 minutes at 23°C.
- Wrapid Shield™ XL-FC is a Fast Cure version and has an application time of 5 minutes at 23°C.



### Applications



Oil & Gas



Onshore Pipelines



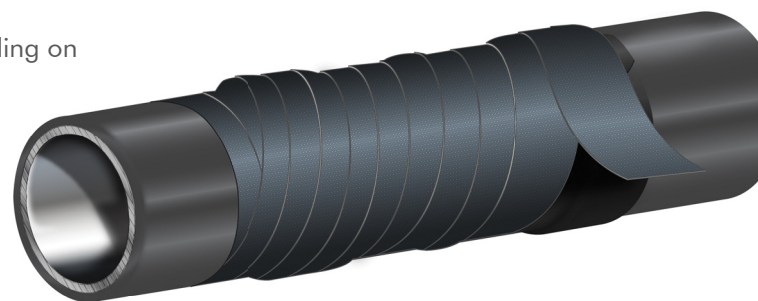
Offshore Pipelines



Girth-Weld Joints



Directional Drilling



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## Fiberglass Mechanical Protection for Field Joints on Directionally Drilled Pipelines

The product information shown here is intended as a guide for standard products.

Consult your Canusa representative for specific projects or unique applications.



Typical Wrapid Shield™ XL Properties*	Test Method	Typical Values
Cure Time at 23°C**		2 hours
Lap Shear Strength	ASTM D3163	12 Mpa
Density	ASTM D792	1.15 g/cm <sup>3</sup>
Glass Transition Temperature (DSC)	ASTM D3418	T <sub>g</sub> = 175 - 189°C
Tensile Strength	ASTM D638	248 MPa
Hardness	Shore D	80
Dielectric strength	ASTM D149	16 kV/mm
Flexural Strength	ASTM D790	405 MPa
Compressive Strength	ASTM D695	165 MPa
Impact Resistance	ASTM G14/G62 (MOD)	167 J
Typical Wrapid Shield™ XL-FC Properties*	Test Method	Typical Values
Cure Time at 23°C**		20 min.
Density	ASTM D792	1.14 g/cm <sup>3</sup>
Tensile Strength	ASTM D638	206 MPa
Hardness	Shore D	> 70
Flexural Strength	ASTM D790	372 MPa
Impact Resistance	ASTM G14/G62 (MOD)	167 J

\*With an 8 layer system.

\*\*Cure times will vary depending on substrate temperature. Please contact your local Canusa office for help in determining which configuration would work best for your project's conditions.

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### Canusa-CPS is registered to ISO 9001:2008

Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the product data sheet when used in compliance with Canusa's written instructions. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith. Canusa's liability is stated in the standard terms and conditions of sale. Canusa makes no other warranty either expressed or implied. All information contained in this data sheet is to be used as a guide and is subject to change without notice. This data sheet supersedes all previous data sheets on this product. E&OE

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Since 1967, Canusa-CPS has been a leading developer and manufacturer of specialty pipeline coatings for the sealing and corrosion protection of pipeline joints and other substrates. Canusa-CPS high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate many specific project applications.