

# HEAVY-DUTY

GIRTH-WELD PROTECTION FOR DIRECTIONALLY DRILLED PIPELINES

**DDX™**



**CANUSA-CPS™**

Corrosion Protection & Sealing



# HEAVY-DUTY

## GIRTH-WELD PROTECTION FOR DIRECTIONALLY DRILLED PIPELINES

DDX™

### ADVANCED GIRTH-WELD PROTECTION FOR PIPES USED IN DIRECTIONALLY DRILLED APPLICATIONS

The DDX™ – Directional Drilling Kit is a high performance system designed to protect welded joints on PE and FBE coated pipelines in directional drilling applications. This 3-layer system is the most recent evolution of Canusa's leading edge joint coating technology.

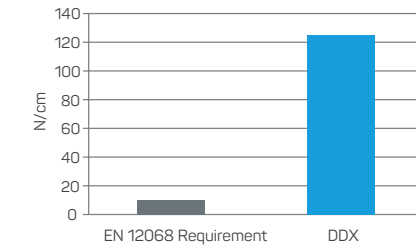
For added mechanical protection during a directional drill application, Canusa's Wrapid Shield™ XL, Wrapid Shield™ XLE or HBE-DX can be applied on the DDX's leading edge as an overcoat.



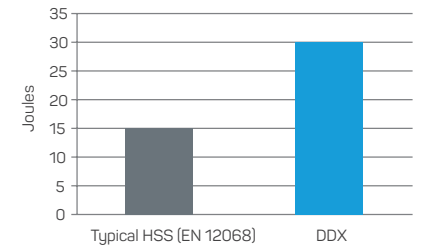
### NAKHON SAWAN PROJECT, THAILAND

DDX is used to protect nearly 5,000 field joints on directionally drilled 3LPE pipelines. Standard DDX product build, which includes a liquid epoxy layer, a primary DDX sleeve to protect the epoxy coated field joint and a sacrificial sleeve to protect the leading edge of the primary sleeve, was utilized for normal HDD and thrust boring operations. For HDD operations in rocky terrain, standard DDX product build in conjunction with Canusa's Wrapid Shield XLE were applied on field joints.

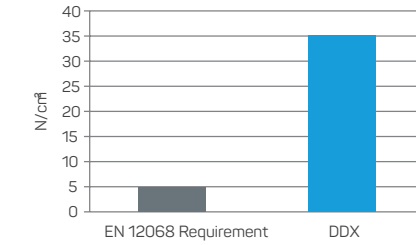
#### ADHESION STRENGTH AT 23°C



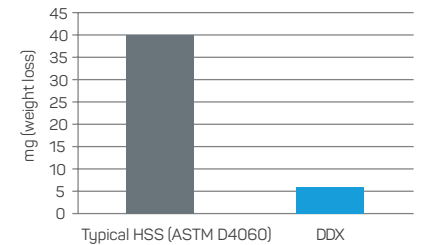
#### IMPACT AT 23°C



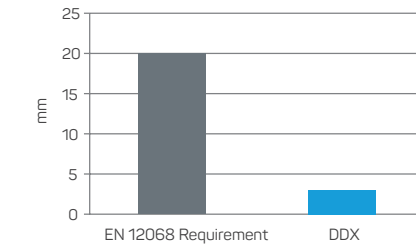
#### LAP SHEAR @ 60°C



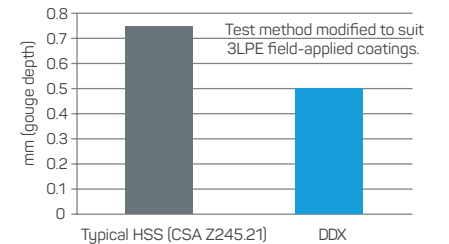
#### \*ABRASION RESISTANCE OF BACKING



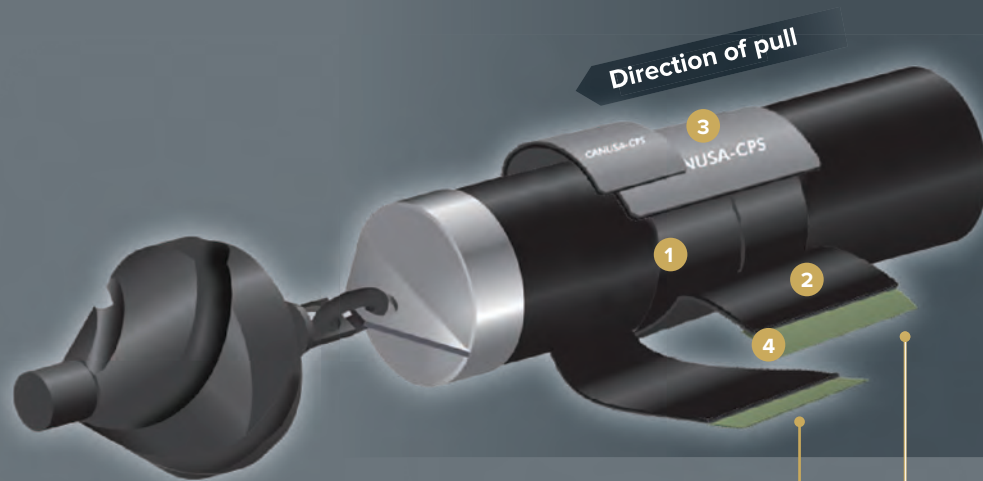
#### \*CATHODIC DISBONDMENT AT 23°C



#### \*GOUGE RESISTANCE



\* Lower values indicate excellent field-applied coating performance for these properties.



1. Force cured epoxy provides excellent anti-corrosion properties and assured epoxy thickness
2. High shear copolymer adhesive with low preheat for efficient installation
3. High performance HDPE backing provides exceptional resistance to the effect of soil shear and pipe movements
4. Pre-attached closure offers quick and easy installation

Sacrificial sleeve protects the leading edge of the primary sleeve during pull-through

Primary sleeve is composed of high shear adhesive, a protective heat-shrinkable HDPE backing and a pre-attached closure



### TRUSTED AROUND THE WORLD

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Corrosion Protection & Sealing

### Western Hemisphere

SFL Canusa - WH  
4757 93rd Ave NW  
Edmonton, Alberta T6B 2T6  
Canada  
Tel: +1 587-754-8701

### Europe

SealForLife Industries  
Nijverheidsstraat 13  
B-2260 Westerlo  
Belgium

### Middle East

SFL Canusa Middle East PPTS LLC  
KLP5, Block B, Unit B-01,  
Sector no.: KHIA8, Al Ma'mourah  
PO Box 2621, Abu Dhabi,  
The United Arab Emirates

**Quality Management system  
registered to ISO 9001**

**[info@canusacps.com](mailto:info@canusacps.com)  
[canusacps.com](http://canusacps.com)**

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.