

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 system offers unmatched installation simplicity while delivering exceptional protection at the joints during and after the tough conditions associated with HDD activities.

Layers of Protection

- Force-cured epoxy is applied directly to steel for maximum corrosion protection
- Primary sleeve composed of high shear strength adhesive and HDPE heat shrinkable backing provides both corrosion and mechanical protection across the joints
- The secondary sleeve provides additional mechanical protection to the leading edge of the primary sleeve during pull-through operations

Gouge and Abrasion Resistance

- Designed to mitigate the effect of forces associated with directional drilling
- Highly resistant to the effects of soil stresses and pipe movements

Performance Meets Productivity

- Low preheat temperatures and straightforward application steps reduce cycle times and improve productivity
- Simple and forgiving installation results in improved reliability and quality of every joint



Applications



Oil & Gas



Water Pipelines



Directional Drilling



Girth-Weld Joints





Advanced girth-weld protection for pipes used in directionally drilled applications

| Sleeve Operating Characteristics | Test Method | Typical Values |
|---------------------------------------|--------------|-------------------------|
| Pipeline Operating Temp. | | Up to 70°C (158°F) |
| Minimum Installation Temp. | | 70°C (158°F)* |
| Main Line Coating Compatibility | | PE & FBE |
| Adhesive Properties | | |
| Softening Point | ASTM E28 | 100°C |
| Lap Shear @ 23°C | EN12068 | > 250 N/cm ² |
| Lap Shear @ 60°C | EN12068 | > 35 N/cm ² |
| Backing Properties | | |
| Tensile Strength | ASTM D638 | 22 MPa |
| Elongation | ASTM D638 | 600% |
| Hardness | ASTM D2240 | 55 Shore D |
| Volume Resistivity | ASTM D257 | 10 ¹⁷ ohm-cm |
| Abrasion Resistance | ASTM D4060 | 6 mg |
| Bursting Strength | DIN 30672 | > 2200 N |
| Sleeve Properties | | |
| Adhesion Strength @ 23°C | EN 12068 | > 125 N/cm |
| Adhesion Strength @ 60°C | EN 12068 | > 15 N/cm |
| Impact Resistance | EN 12068 | > 30 J |
| Indentation Resistance | EN 12068 | Pass |
| Cathodic Disbondment @ 23°C, 28 days | EN 12068 | < 3 mm rad |
| Cathodic Disbondment @ 65°C, 48 hours | EN 12068 | < 3 mm rad |
| Microbiological Resistance | ASTM G21 | Pass |
| Soil Stress Resistance | EN 489:2009 | Pass |
| Gouge Resistance [†] | CSA Z245.21 | 0.5 mm |
| Low Temp. Flexibility | ASTM D2671-C | > -32°C |
| Total System Thickness | Supplied | Typical Applied |
| Standard Product | 2.8 mm | 3.0 mm |

(Custom project thickness available. Consult with your local Canusa Representative.)

* Indicated minimum installation temperature is for typical 3-layer systems. Please refer to the appropriate DDX install guide for the minimum installation temperature of a typical 2-layer system.

† Average gouge depth. Test method modified for field-applied 2-layer and 3-layer PE coating systems.

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.

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

Consult your Canusa representative for specific projects or unique applications at info@canusacps.com.



Quality Management system registered to ISO 9001

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

PDS_DDX_rev024

LIBERTY SALES & DISTRIBUTION



PHONE: (877) 373-0118
 FAX: (888) 850-3787
 EMAIL: sales@libertysales.net
 WEB: www.libertysales.net