

# XCS

## Protective Coating for Extreme Conditions, including Cold Weather Applications and Rehabilitation of Pipe Coating

XCS Extreme Condition System utilizes a crosslinked polyolefin backing, coated with a protective heat activated adhesive which effectively bonds to most substrates and common pipeline coatings. XCS is designed to protect live, flowing pipelines where pre-heating of the substrate is not possible. XCS is also designed for cold weather application, as well as custom application and usage. These sleeves are supplied with a black backing that is stabilized against ultra-violet degradation.

### Assured Protection

- XCS is made from materials that provide high electrical resistivity, resistance to corrosive environments, low water absorption, low moisture permeability and an effective bond to both the steel surface and to common pipeline coatings.
- When the sleeve is heated, the adhesive is transformed into an amorphous, low viscosity liquid, which has excellent bonding to the substrates.

### Flexible & Reliable Installation

- XCS sleeves are available in widths up to 36" (900mm) and can be applied in overlapping sleeve segments along the pipe length, or as a standard field joint coating.
- XCS is available as one-piece wraparound sleeves or as a bulk roll with a separate closure for greater flexibility.

### No Pre-Heat

- XCS sleeves can be used to coat live lines operating between 10°C (50°F) and 50°C (122°F).
- No preheat is necessary for ambient temperature installations.



### Applications



Repair & Rehab



Mainline Coating



Live Lines



Low Temperature





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

Consult your Canusa representative for specific projects or unique applications.



| Sleeve Operating Characteristics         |                    | XCS   |                    |
|--|--------------------|---|--------------------|
| Pipeline Operating Temp.                 |                    | Up to 50°C (122°F)                          |                    |
| Minimum Installation Temp.               |                    | Not Applicable                              |                    |
| Main Line Coating Compatibility          |                    | PE, PP, FBE, PU, Coal Tar, Bitumen, Asphalt |                    |
| Adhesive Properties                      | Test Method        | Typical Properties                          |                    |
| Softening Point                          | ASTM E28           | 110°C                                       |                    |
| Lap Shear                                | DIN 30 672         | 13 N/cm <sup>2</sup>                        |                    |
| Backing Properties                       |                    |   |                    |
| Tensile Strength                         | ASTM D638          | 24 MPa                                      |                    |
| Elongation                               | ASTM D638          | 700%  |                    |
| Hardness                                 | ASTM D2240         | 48 Shore D                                  |                    |
| Volume Resistivity                       | ASTM D257          | 10 <sup>17</sup> ohm-cm                     |                    |
| Sleeve Properties                        |                    |   |                    |
| Adhesion Strength @ 23°C                 | ASTM D1000         | 40 N/cm                                     |                    |
| Impact Resistance                        | DIN 30 672         | pass  |                    |
| Indentation Resistance                   | DIN 30 672         | pass  |                    |
| Cathodic Disbondment @ 23°C, 28 days     | ASTM G8            | 8 mm rad                                    |                    |
| Thickness                                | T                  | L   | S                  |
| Backing (nominal thickness as supplied)  | 0.9 mm<br>(0.035") | 0.9 mm<br>(0.035")                          | 1.1 mm<br>(0.045") |
| Adhesive (nominal thickness as supplied) | 0.9 mm<br>(0.035") | 1.4 mm<br>(0.055")                          | 1.5 mm<br>(0.060") |

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**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

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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.