

# Liquid Epoxy Type E-WF

## Wet and force-cure epoxy for superior 3-layer corrosion protection

Canusa-CPS Liquid Epoxy Type E-WF is a two part epoxy applicable in Wet or Force Cure conditions. It is used as the primary layer with GTS-65-ISO and GTS-65-EN Canusa-CPS Heat Shrink Sleeves. With versatility in application methodology, epoxy primer type E-WF allows for use in great variety of environments where 3-Layer Heat Shrink Sleeve field joint coating is required. It is composed of a specially formulated 100% solids epoxy system, which does not use any volatile solvents. This ensures that the thickness of the epoxy layer does not change as it cures.

### Coating Continuity

- The Liquid Epoxy Type E-WF layer offers equivalent corrosion protection to FBE primary layer in 3 layer polyethylene and 3 layer polypropylene mainline coated pipelines

### Improved Cathodic Disbondment Resistance

- Liquid Epoxy Type E-WF will improve the Cathodic Disbondment resistance results for hotmelt type adhesives when compared against bare steel substrate.

### Versatility in Application Methods

- Epoxy formulation compatible with both wet and force cure methodology to meet needs in variety of different project environments.

### Saves Time

- The improved chemical bonding that is achieved from the adhesive to the epoxy layer allows for reduced sleeve installation times due to lower heat requirements.



### Applications



Oil & Gas



Onshore Pipelines



Offshore Pipelines



Repair & Rehab

# Liquid Epoxy Type E-WF

Wet and force-cure epoxy for superior 3-layer corrosion protection

## Performance Characteristics

|                              |   |
|------------------------------|---|
| Mixing Ratio                 | 3:1 (by volume)   |
| Percent Solids               | 100%  |
| Density (g/cm <sup>3</sup> ) | 1.65 ± 0.05 (Base)<br>1.00 ± 0.05 (Cure)  |
| Viscosity                    | 31,500 ± 6,500 cPs (Base)<br>4,000 ± 2,000 cPs (Cure)   |
| Typical Coating Thickness    | 6 mils  |
| Number of coats              | One   |
| Pot Life                     | 30 min at 23°C<br>Pot life decreases with temperature.  |
| Shelf Life                   | 3 years after manufacturing date when stored at temperatures between 5°C and 40°C. <sup>3</sup> |
| Flash Points                 | 143°C (Base)<br>118°C (Cure)  |

## Calculation of Liquid Epoxy Type E-WF Quantity Required

|   |   |
|---|---|
| Bare Steel Surface Area (square meter)            | $Circumference (m) * Cutback length (mm) / 1000$  |
| Required Volume of Liquid Epoxy Type E-WF (Liter) | $Bare Steel Surface Area * Thickness (microns) / 1000000 * [(1+Wastage Factor^1/100) * 1000]$ |
| Total Required Number of Kits                     | $Required Volume of Liquid Epoxy Type E-WF / 0.170$   |

## Typical Quantity of 170 ml Liquid Epoxy Type E-WF kits required by Pipe Size<sup>2</sup>

|             |       |
|-------------|-------|
| 4.5" to 22" | One   |
| 24" to 46"  | Two   |
| 48" to 68"  | Three |

<sup>1</sup> Typical Wastage Factor: 25-50%

<sup>2</sup> Based on a 300 mm wide cut back with 6 mils average thickness with epoxy applied on steel only and typical wastage

<sup>3</sup> Please refer to Canusa-CPS Shipping, Handling, Storage & Shelf Life Guidelines

Epoxy Consumption is based on the following variables and will differ between applications:

- Applicator Type (roller or sponge)
- Applicator Skill
- Surface Profile
- Pipeline Layout
- Application on mainline coating (Please refer to Installation Guidelines for each GTS product)

## Safety

Handle with care. Before and during use, observe all safety labels on packaging containers, consult with Canusa-CPS Material Safety Data Sheets and abide by all local or national safety regulations.

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](mailto:info@canusacps.com).



## 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

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\_Epoxy(E-WF)\_rev010