

Liquid Epoxy Type S-80

Wet epoxy for superior 3-layer corrosion protection

Canusa Liquid Epoxy Type S-80 is a wet applied, two part epoxy, used as the primary layer with Canusa 3-Layer systems, such as GTS-80/M80 and GTS-80-ISO. It is composed of a specially formulated 100% solids epoxy system, which does not use any volatile solvents. Applied as wet epoxy system, the installation of the GTS sleeves immediately follows application of Liquid Epoxy Type S-80 ensuring superior corrosion protection of field welded joints. Compatibility with mainline coating allows for application of epoxy primer onto adjacent coating. Refer to installation guidelines of corresponding Canusa GTS product to determine when to apply epoxy on overlap area.

Coating Continuity

- The Liquid Epoxy Type S-80 layer offers equivalent corrosion protection to the FBE primary layer in 3-layer polyethylene mainline coated pipelines.

Improved Cathodic Disbondment Resistance

- Liquid Epoxy Type S-80 will improve the Cathodic Disbondment resistance results for hotmelt type adhesives when compared against bare steel substrate.

Enhanced Chemical and Mechanical Bond

- The special "wet application" formula of Liquid Epoxy Type S-80 allows for enhanced adhesion strength to steel pipe surface and hotmelt adhesive layer of the GTS heat shrink sleeves.

Saves Time

- Lower pre-heat requirements of the wet-applied Liquid Epoxy Type S-80 allow for reduced installation times while maintaining highest performance for 3-Layer GTS systems rated up to 85°C operating temperature.



Applications



Oil & Gas



Onshore Pipelines



Offshore Pipelines



Repair & Rehab



High Temperature



Girth-Weld Joints

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Performance Characteristics

Mixing Ratio	4:1 (by volume)
Percent Solids	100%
Density (g/cm ³)	1.78 ± 0.05 (Base) 1.05 ± 0.05 (Cure)
Typical Coating Thickness	Minimum 8 mils (200 microns)
Number of Coats	One
Pot Life	35 min @ 20°C Pot life decreases with increased temperature.
Shelf Life	2 years after manufacturing date when stored at temperatures between 5°C and 40°C. ³
Flash Points	> 93°C (Base) 101°C (Cure)

Calculation of Liquid Epoxy Type S-80 Quantity Required

Bare Steel Surface Area (square meter)	Circumference (m) * Cutback length (mm) / 1000
Required Volume of Liquid Epoxy Type S-80 (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 S-80 / 0.200

Typical Quantity of 170 ml Liquid Epoxy Type S-80 kits required by Pipe Size²

4.5" to 10"	One
12" to 22"	Two
24" to 34"	Three
36" to 46"	Four

¹ Typical Wastage Factor: 25-50%

² Based on a 300 mm wide cut back with 8 mils average thickness with epoxy applied on steel and parent coating and typical wastage

³ Please refer to Canusa-CPS Shipping, Handling, Storage & Shelf Life Guidelines

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

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

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.



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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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