

## Liquid Epoxy Type S

### Wet epoxy for superior 3-layer corrosion protection

Canusa Liquid Epoxy Type S is a wet applied, two part epoxy, used as the primary layer with Canusa 3-layer systems, such as GTS-PE, GTS-65 and GTS-80. It is composed of a specially formulated 100% solids epoxy system, which does not use any volatile solvents. This keeps the thickness of the epoxy layer as it cures, ensuring superior corrosion protection of field welded joints on steel pipes. Liquid Epoxy Type S has extended pot life at high temperatures which allows for longer working time.



#### Coating Continuity

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

#### Improved Cathodic Disbondment Resistance

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

#### Extended Pot Life

- Liquid Epoxy Type S has an extended pot life to allow ample time to complete the application of Canusa 3-layer systems to maximize quality assurance and ensure correct product installation.

#### Applications



Oil & Gas



Offshore Pipelines



Repair & Rehab



High Temperature



Girth-Weld Joints

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Properties	Typical Values
Mixing Ratio	3:1 (by volume)
Percent Solids	100%
Specific Gravity	1.58 ± 0.03 (Base) 1.02 ± 0.02 (Cure)
Viscosity	14,000 ± 14% cps (Base) @ 60 C, #7 spindle at 10 rpm 250 ± 20% cps (Cure) @ 25°C, #3 spindle at 20 rpm
Typical Thickness	6 ± 2 mils
Number of Coats	One
Pot Life	140 minutes @ 23°C, 30 minutes @ 40°C
Shelf Life	3 years @ 23°C, out of direct sunlight. Shelf life will be lesser at higher temperatures.
Thinner	Do not dilute.
Minimum Curing Temperature	10°C
Typical Coverage	5.3 sq.m/litre (57 sq.ft./litre). This coverage is based on 6 mils of thickness & assuming 20% waste factor

### Calculation of Liquid Epoxy Type S Quantity Required

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

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

4.5" to 22"	One
24" to 42"	Two
44" to 60"	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 and typical wastage

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

- Applicator Type (roller or sponge)
- Surface Profile
- Applicator Skill
- Pipeline Layout

### Safety

Handle with care. Before and during use, observe all safety labels on packaging containers, consult with Canusa-CPS 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.



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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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