CANUSA-CPS

Liquid Epoxy Type E

Force-cure epoxy for superior 3-layer corrosion protection

Canusa Liquid Epoxy Type E is a force cured, two part epoxy used as the primary layer with Canusa 3-layer systems, such as GTS-PE and GTS-65. Usage of Canusa's proven method of force curing enables the installer to "pre-inspect" the joint prior to sleeve application. This provides the assurance that the pipe is fully protected and it will not be displaced and exposed to corrosive contaminates during the aligning and shrinking stages of the sleeve installation. 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.



 The Liquid Epoxy Type E layer offers equivalent 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 E will improve the Cathodic Disbondment resistance results for hotmelt type adhesives when compared against bare steel substrate.

Superior Force Cured Epoxy

 Using Canusa's proven method of force curing the epoxy to the steel allows the installer to "pre-inspect" the joint prior to sleeve installation.

Saves Time

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



Applications



Oil & Gas



Offshore Pipelines



Repair & Rehab



High Temperature

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Performance Characteristics	E	E-HB
Mixing Ratio	4:1 (by volume)	3:1 (by volume)
Percent Solids	100%	100%
Specific Gravity	1.57 ± 0.05 (Base) 1.04 ± 0.05 (Cure)	1.49 ± 0.05 (Base) 1.04 ± 0.05 (Cure)
Viscosity	14,000 ± 10% cps (Base) 800 ± 20% cps (Cure)	68,000 ± 20% cps (Base) 18,000 ± 20% cps (Cure)
Typical Coating Thickness	6 mils	10 mils
Number of coats	One	One
Pot Life	18 minutes @ 23°C Pot life decreases with temperature.	10 minutes @ 23°C Pot life decreases with temperature.
Shelf Life	3 years @ 23°C, out of direct sunlight. Shelf life decreases with temperature.	
Minimum Curing Temperature	10°C	10°C
Calculation of Liquid Epoxy Typ	e E Quantity Required	
Bare Steel Surface Area (square meter)	Circumference (m) * Cutback length (mm) / 1000	
Required Volume of Liquid Epoxy Type E (Liter)	Bare Steel Surface Area * Thickness (microns) / 1000000 * [(1+Wastage Factor¹/100) * 1000]	
Total Required Number of Kits	Required Volume of Liquid Epoxy Type E / 0.170	
Typical Quantity of 170 ml Liquid Epoxy Type E kits required by Pipe Size ²		
4.5" to 22"	One	
24" to 42"	Two	

¹Typical Wastage Factor: 25-50%

44" to 60"

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

- Applicator Type (roller or sponge)
- Surface Profile

Three

· Applicator Skill

· 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.



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)_rev020



² Based on a 300 mm wide cut back with 6 mils average thickness and typical wastage