

Canusa E Primer

Force-cure epoxy for superior 3-layer corrosion protection

Description: Canusa E Primer is a specially formulated 100% volume solids

(solventless) two component epoxy.

Recommended use: As a primer in a 3 layer coating system for superior corrosion

protection of field welded joints of steel pipes. Usage of Canusa's proven method of force curing the E Primer to the steel 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 contaminants during the aligning & shrinking stages

of the sleeve installation.

Color: Black

Volume Solids: 100%

Weight Solids: 100%

Mixing Ratio: (by volume) - 4 parts of base to 1 part of cure

(by weight) - 6.1 parts of base to 1 part of cure

Typical Coverage: 20 sq.m./US gallon (215 sq.ft/US gallon) or 5.3 sq.m/litre (57

sq.ft/litre). This coverage is based on 6 mils of thickness &

assuming 20% waste factor

Specific Gravity: E Primer Base - 1.58 ± 0.03 (ASTM D 1475)

E Primer Cure - 1.04 ± 0.02 (ASTM D 1475)

Viscosity: E Primer Base - $14,000 \pm 2,000$ cps at 60° C, #7 Spindle at

10rpm

E Primer Cure - 30 ± 3 seconds (ASTM D1200 #4 Ford cup @

25°C)

Typical Thickness: 4-6 mils (100-150 microns)

Number of Coats: One

Pot Life: 20 minutes @ 23°C (73°F)

Shelf Life: 3 years @ 23°C, out of direct sunlight. Shelf life will be lesser

at higher temperatures.

Flash point: E Primer Base - 93°C (200°F)

E Primer Cure - 92°C (198°F)

Thinner: Do not dilute.

Minimum Curing

Temperature: 10°C (50°F)

Safety: Handle with care. Before and during use, observe all safety labels on

packaging and paint containers, consult CANUSA Material Safety Data Sheets and follow all local or national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance if swallowed. Avoid inhalation if possible solvent vapors or paint mist, as well as paint contact with skin and eyes. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of

fire and explosions.

Oil & Gas

Offshore Pipelines

Repair & Rehab

High Temp

Girth-Weld Joints

Configurations















up to 80°C (176°F)

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Application

- Prepare the pipe surface as recommended in the product specific Installation Guide.
- 2) Follow the mixing instructions that are contained within the epoxy packaging.

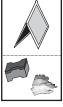
2A - Epoxy Bulk Quantities







2B - Epoxy BP











- With a gloved hand, pour the combined mixture onto the pipe...
- 4) ...and begin spreading the epoxy primer (to a uniform thickness) circumferentially around the pipe surface using the applicator pad.
- 5) Use a wet film thickness gauge to ensure a correct, uniform thickness has been achieve all around the pipe.

Epoxy Usage: 300mm (12") cutback and 150µm (6mils) epoxy thickness

Outside Pipe Diameter		Volume (mL) Required Base Cure		Joints per US Gal 170mL	
mm	in			of Base ¹	Kit ²
115	41/2	16	4	195	8
170	6%	24	6	130	51/4
230	85/8	32	8	97	4
280	10¾	40	10	78	31/4
315	12¾	44	11	70	3
355	14	52	13	69	21/2
400	16	56	14	60	21/4
450	18	64	16	55	2
500	20	72	18	43	1¾
610	24	88	22	35	11/2
760	30	108	27	28	1¼
915	36	132	33	23	1
1060	42	152	38	20	3/4
1220	48	172	43	18	3/4
1420	56	200	50	15	5/8
1520	60	216	54	14	1/2

Epoxy required for 300 mm / 12" cutback. For other cutbacks, divide by 12 and multiply by new cutback in inches

Example

200 mm (8") cutback on 610 mm diameter pipe

base: 88 ml x $\frac{8}{12}$ = 60 ml base **cure:** 22 ml x $\frac{8}{12}$ = 15 ml cure

- Mixing ratio by volume of base to cure is 4:1. Therefore, for 1 US gallon of Base, 0.25 US gallons of cure will be required. Due to pot life limitations, it may be impractical to coat multiple joints with the same epoxy kit.

How to Order				
Epoxy BP Unit:	BP Units include pre-measured quantities of E Primer Base and E Primer Cure in a bubble pak.			
Epoxy BP Kit:	Application Accessories (gloves and application pad) must be purchased separately. BP Kits include pre-measured quantities of E Primer Base and E Primer Cure in a bubble pak, a pair of latex gloves and an application pad.			
Bulk Epoxy:	Bulk epoxy is available in US gallon quantities. The mixing ratio by volume of BASE to CURE is 4:1.			
Bulk Accessories:	Bulk accessories (i.e. appl. access. kits, dispensing pump, etc.) are available for easier field mixing and preparation.			

Product Designation ³	Package Contents*
E Primer BP Unit - 170mL	136mL of E Primer Base, 34mL of E Primer Cure
E Primer BP Kit - 170mL	136mL of E Primer Base, 34mL of E Primer Cure, latex gloves, application pad
E Primer Base - 1 US Gal	1 US gallon (3.79 L) of E Primer Base
E Primer Base - 5 US Gal	5 US gallon (18.9 L) of E Primer Base
E Primer Cure - 1/4 US Gal	1/4 US gallon (0.95 L) of E Primer Cure
E Primer Cure - 1 US Gal	1 US gallon (3.79 L) of E Primer Cure
E Primer Cure - 5 US Gal	5 US gallon (18.9L) of E Primer Cure
Primer Appl BP Units Small ø	100 application pads, 2 pairs of latex gloves
Primer Appl BP Units Large Ø	200 application pads, 4 pairs of latex gloves
Primer Appl. Acces Bulk Small ø	100 12oz cups, 100 4oz cups, 2 pairs of latex gloves, 100 application pads, 100 mixing sticks
Primer Appl. Acces Bulk Large Ø	100 26oz cups, 100 12oz cups, 2 pairs of latex gloves, 200 application pads, 100 mixing sticks
Epoxy Dispensing Pump - 5 US Gal	Dispensing Pump designed for the 5 US gallon container of E Primer Base

- 3 Small diameter ø represents joints completed with one installer. As a general rule, only one installer is required up to 18" (450mm) pipe sizes.
- * Latex gloves associated with Bulk Accessories are heavy duty and can be used for more than one joint.
- ** For large projects, joint specific pre-measured epoxy quantities (other than standard 170mL) will be considered.

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Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the installation guide 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 installation guide and is subject to change without notice. This installation guide supersedes all previous installation guides on this product.

EXOE

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