CANUSA-CPS

GTS-65 (3-Layer)

Global Transmission Sleeve

Product Description



GTS-65 Global Transmission Sleeves are shipped pre-cut with a pre-attached closure. Bulk quantities are also available. The sleeve adhesive is protected from contamination by an inner liner. The joint completion system may also use an epoxy primer.

Equipment List



Propane tank, hose, torch & regulator; Appropriate tools for surface abrasion; Epoxy application accessories & wet film thickness gauge; Knife, roller, rags & Canusa approved solvent cleanser; Digital thermometer with suitable probe; Standard safety equipment: gloves, goggles, hard hat, etc.

Flame Intensity & Torch Size



Surface Preparation



Ensure that the mainline coating edges are beveled to 30°. If there is the presence of oil, grease, or other surface contaminants; clean the exposed steel and adjacent pipe coating with a solvent cleanser



Warm the joint area to 40-50°C (100-120°F) before grit blasting. Thoroughly clean the weld area with a sand or grit blaster to "near white metal" SIS Sa 21/2 or equivalent. Abrade the mainline coating adjacent to the weld area to a distance 50 mm (2") beyond the sleeve width.

Pre-Heat



Pre-heat the epoxy and the abraded coating to 90°C ± 5° (195°F ± 10°) with the appropriate propane torch. This will substantially cure the epoxy and ensure proper flow and bonding of the sleeve adhesive. Do not use an intense flame on the mainline coating. If a film develops on the mainline coating because of preheat, use a surface abrasion tool to remove it



Using a dry, grease and lint-free cloth, wipe clean or air blast the steel and coated areas to remove foreign materials. If necessary, provide additional heat to ensure the surface temperature is 40-50°C (104-120°F).

Check the temperature to ensure the

preheat has been obtained on the

entire pipe circumference. This preheat

will substantially cure the epoxy and

ensure proper flow and bonding of the

sleeve adhesive. Ensure that the epoxy

primer is dry to the touch prior to sleeve

Sleeve Installation

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installation.

Epoxy Primer



Follow the Preparation, Mixing and Application instructions provided with the supplied Canusa Epoxy Pack. For bulk quantities: mix the primer cure with the primer base (4 parts base to 1 part cure by volume). Stir for a minimum of 30 seconds to assure uniform mixture.

Epoxy Primer Application



Apply mixed epoxy to a minimum uniform thickness of 4 mils on all exposed bare metal plus 10 mm (0.5") onto the adjacent pipe coating.



Partially remove the release liner and gently heat the underlap approximately 150 mm (6") from the edge.



Centre the sleeve over the joint so that the sleeve overlaps between the 10 and 2 o'clock positions. Press the underlap firmly into place. Remove the remaining release liner.

Sleeve Installation Cont'd



Wrap the sleeve loosely around the pipe, ensuring the appropriate overlap. Gently heat the backing of the underlap and the adhesive side of the overlap.

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of pipe.

Pipe 0.D. ≤450mm (18")

1 torch

>450mm (18") 2 torches



Press the closure firmly into place.



Gently heat the closure and pat it down with a gloved hand. Repeating this procedure, move from one side to the other. Smooth any wrinkles by gently working them outward from the centre of the closure with a roller.



Shrinking has been completed when the adhesive begins to ooze at the sleeve edges all around the circumference. Finish shrinking the sleeve with long horizontal strokes over the entire surface to ensure a uniform bond.

Epoxy Usage

300 mm / 12" cutback and 0.15 mm / 0.006" epoxy thickness

Pipe Diameter		Quantity Required	
mm	in	base (ml)	cure (ml)
115	41⁄2	16	4
170	6.6	24	6
230	8.6	32	8
280	10¾	40	10
315	12¾	44	11
355	14	52	13
400	16	56	14
450	18	64	16
500	20	72	18
610	24	88	22
660	26	96	24
760	30	108	27
915	36	132	33
1060	42	152	38
1220	48	172	43
1420	56	200	50
1520	60	216	54

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

200 mm (8") cutback on 610 mm diameter pipe base: 88 ml x 8/12 = 60 ml base cure: 22 ml x 8/12 = 15 ml cure

Example

Storage & Safety Guidelines

To ensure maximum performance, store Canusa products in a dry, ventilated area. Keep products sealed in original cartons and avoid exposure to direct sunlight, rain, and avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental elements. For the GTS-65 Heat Shrink Sleeve, avoid prolonged storage at temperatures above 35°C (95°F) or below -20°C (-4°F). For the Epoxy, avoid prolonged storage at temperatures above 40°C (104°F) or below 5°C (41°F). Product installation should be done in accordance 40°C (104°F) or below 5°C (41°F), Houduc installation should be done in accordance with local health and safety regulations. Additional information regarding product storage, can be found in the current version of Canusa's Technical Bulletin - Shipping, Unadline Chargen 8, Solie Life Handling, Storage & Shelf Life

Canusa's technical bulletins and literature for all products can be found on our website at canusacos.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 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 warrantu of sale. Canusa makes no other warranty either expressed or implied. All information contained in this installation guide is to be used as a guide and is subject to change without notice. This installation guide supersedes all previous installation guides on this product. E&OE

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Using the appropriate sized torch, begin

at the centre of the sleeve and heat

While the sleeve is still hot and soft use a hand roller to gently roll the sleeve surface and push any trapped air up and out of the sleeve, as shown above. Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.



Continue heating from the centre toward

one end of the sleeve until recovery is

complete. In a similar manner, heat and

Visually inspect the installed sleeve for the following:

- Sleeve is in full contact with the steel joint.
- Adhesive flows beyond both sleeve edges.
- No cracks or holes in sleeve backing.

Backfilling Guidelines

After shrinking is complete, allow the sleeve to cool for 2 hours prior to lowering and backfilling. To prevent damage to the sleeve, use selected backfill material, (no sharp stones or large particles) otherwise an extruded polyethylene mesh or other suitable shield should be used.

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