

GTS-PP-100 (2-Layer)

One-piece protective sleeve with pre-attached closure for high temperature polyolefin coated pipelines

Product Description



Canusa GTS-PP-100 WrapidSleeves® are shipped pre-cut with a pre-attached closure. The adhesive is protected from contamination by an inner liner.

Equipment List



Propane tank, hose, torch & regulator; Power grinder with grind wheel of a Grade 40 grit rating; Canusa heat shields, Induction coil & generator; Digital thermometer with suitable probe; Knife, J roller, rags & approved solvent cleanser; Standard safety equipment; gloves, goggles, hard hat, etc.

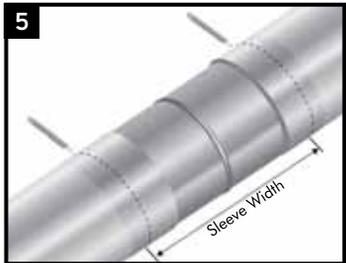
Flame Intensity & Torch Size



Surface Preparation



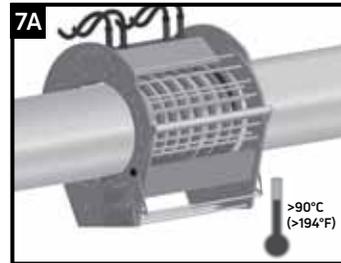
Ensure that the adjacent coating edges are beveled to 30°. Clean exposed steel and adjacent pipe coating with a solvent cleanser to remove the presence of oil, grease, and other contaminants.



Ensure that the pipe is dry before cleaning. Using a power wire brush, abrade the pipe to a minimum of St3/SP3 (as an option, abrasive blast to Sa2.5/SP10). Lightly abrade the pipe coating adjacent to the cutback area to a distance of 50mm (2") beyond each end of the sleeve width for 3LPE or 3LPP coating types only.



Wipe clean or air blast the steel and pipe coating to remove foreign contaminants. Conduct salt contamination, surface cleanliness and surface profile checks in accordance with client procedures, requirements and frequency.



Using the appropriate sized induction coil or propane torch(es), pre-heat the joint area to $> 90^{\circ}\text{C}$ ($> 194^{\circ}\text{F}$). When heating with torch, use heat shields to protect mainline coating from the flame. Using a temperature measuring device, ensure that the correct temperature is reached on the steel and the coating overlap which the sleeve will cover. Check to ensure the correct minimum temperature has been achieved on each quadrant of the bare steel cutback surface and mainline coating overlaps.

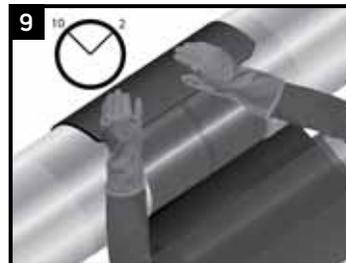


Sleeve Installation

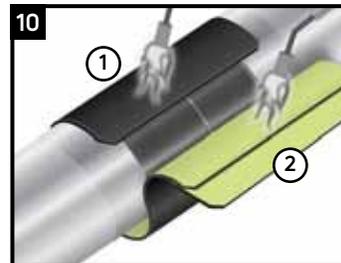


Partially remove the release liner [approximately 0.5m (1.5') from the edge] from the corner trimmed sleeve edge.

Unroll sleeve so that closure is on the inside of the roll before applying heat to other end of sleeve.



Place the underlap of the sleeve onto the joint, centering the sleeve such that the sleeve overlap is positioned at either the 10 or 2 o'clock position. Ensure that the sleeve is placed square to the pipe.

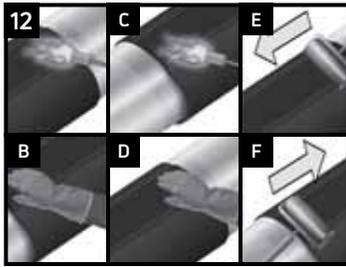


Remove the remaining sleeve release liner and wrap the sleeve loosely around the pipe, ensuring the appropriate overlap. Before finishing wrapping the sleeve:

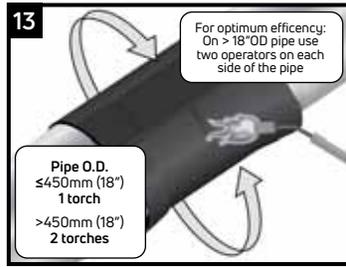
1. Heat the backing side of the underlap until the backing starts to recover. Then use a roller to secure the underlap to the pipe.
2. Gently heat the adhesive side of the closure seal until it appears glossy.



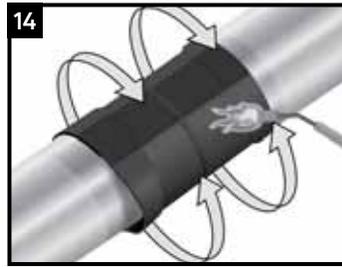
Firmly press the entire closure seal into place. Ensure that the closure is centred evenly over the underlap-overlap sleeve seam.



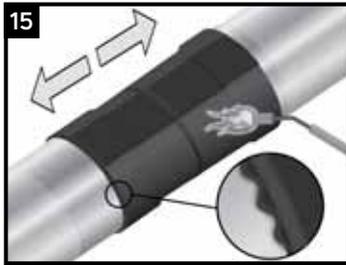
Gently heat the closure and pat it down with a gloved hand. Repeating this procedure, move from one side to the other. Smooth any wrinkles by gently working them outward from the centre of the closure with a roller.



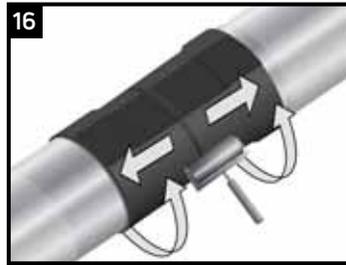
Using the appropriate sized torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.



Continue heating from the centre toward one end of the sleeve until recovery is complete. In a similar manner, heat and shrink the remaining side.



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.



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.

Inspection



Visually inspect the installed sleeve for the following:

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

Backfilling Guidelines

After shrinking is complete, allow the sleeve to cool for 2 hours. Conduct Holiday testing to project specification, if required, prior to lowering and backfilling. To prevent damage to the sleeve, use typical soft soil or small pebble backfill. Revert to project specific backfill if different.

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, snow, dust or other adverse environmental elements. Avoid prolonged storage at temperatures above 35°C (95°F) or below -20°C (-4°F). Product installation should be done in accordance with local health and safety regulations.

These installation instructions are intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

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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 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

Part No. 99060-129

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