GTS-PP-100 (3-Layer)

3-Layer High Performance Crosslinked Polypropylene Heat Shrink Sleeve System for the girth weld protection of 3-layer polyolefin coated pipelines

**Product Description**

GTS-PP-100 3-layer sleeves are shipped pre-cut with a pre-attached closure. The adhesive is protected from contamination by an inner liner. The joint completion system includes Canusa’s E Primer epoxy supplied in bulk or pre-measured BP Kit.

**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; Epoxy applicator pad, wet film thickness gauge; Standard safety equipment; gloves, goggles, hard hat, etc.

**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.

**Flame Intensity & Torch Size**

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<th>Pipe O.D.</th>
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<td>≤ 450mm (18&quot;)</td>
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Use moderate flame intensity for pre-heating and shrinking.

Apply mixed epoxy to a uniform specified thickness of 4-6 mils (100-150 microns) on all exposed bare metal using the applicator pads as supplied or an approved tool. Do not apply the epoxy to the mainline coating. Use a wet film thickness gauge to confirm the thickness.

**Sleeve Installation**

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

**Product Description**

Pipe O.D. ≤ 450mm (18”)

Minimum Torch Size: 150,000 BTU/hr.

Pipe O.D. > 450mm (18”)

Minimum Torch Size: 300,000 BTU/hr.

Follow the Preparation, Mixing and Application instructions provided with the supplied Canusa Epoxy Pack.

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**Sleeve Installation**

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**Sleeve Installation Cont’d**

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.

Continuing 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.

**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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**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 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: 99060-208

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