KLON & KLNN
One-piece protective sleeve with pre-attached closure

**Product Description**

Canusa WrapSleeves® 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;
- Appropriate tools for surface abrasion;
- Knife, roller, rags & approved solvent cleanser;
- Digital thermometer with suitable probe;
- Standard safety equipment;
- Gloves, goggles, hard hat, etc.

**Flame Intensity & Torch Size**

<table>
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<th>Pipe O.D.</th>
<th>Minimum Torch Size</th>
<th>Minimum Torch Size</th>
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<td>≤ 450mm (18&quot;)</td>
<td>150,000 BTU/hr.</td>
<td>300,000 BTU/hr.</td>
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<tr>
<td>&gt; 450mm (18&quot;)</td>
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Use moderate flame intensity for pre-heating and shrinking.

**Surface Preparation**

Ensure that the PE 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.

**Sleeve Installation**

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.

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.

Press the closure firmly into place.

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

Wipe clean or air blast the steel and pipe coating to remove foreign contaminants.

Pre-heat the joint area to the minimum required temperature. Using a temperature measuring device, ensure that the correct temperature is reached on the steel and at least 50mm (2") on each side of the sleeve.

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

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

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Visually inspect the installed patch 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.