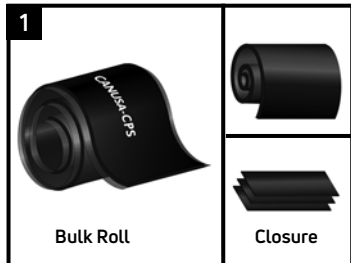


K-60 CanusaWrap™

Two-piece protective bulk roll with separate closure

Product Description



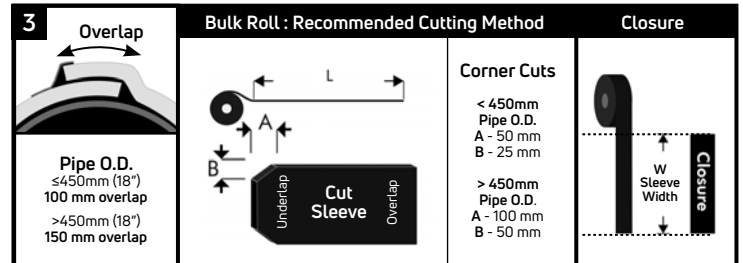
K-60 CanusaWrap™ is typically shipped in bulk rolls or as pre-cut sleeves. The adhesive is protected from contamination by an inner liner. Closures are shipped either in bulk rolls or pre-cut.

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.

Product Preparation Guidelines



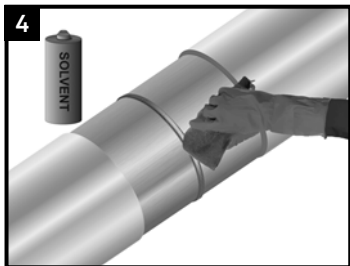
As a guideline, cut the required lengths of Sleeve material (L) and Closure material (W) from the bulk roll as follows

$$L = \text{Coated Pipe circumference} + \text{overlap dimension}$$

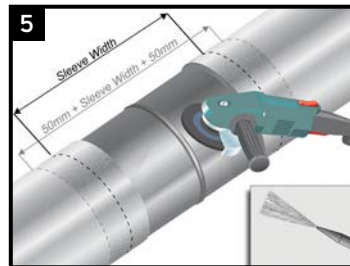
$$W = \text{Sleeve Width}$$

Ensure that the sleeve and closure are not damaged or contaminated. Trim corners as shown. Please see "CanusaWrap™ Sleeve Cutting Guidelines" for more information on alternative cutting methods.

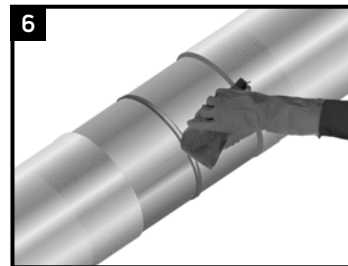
Surface Preparation



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.

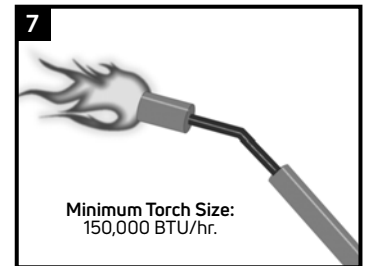


Ensure that the pipe is dry before cleaning. Using a power wire brush, abrade the pipe to a minimum of St3/SP3 (abrasive blast to Sa2.5/SP10 recommended). Lightly abrade the pipe coating adjacent to the cutback area to a distance of 50mm (2") beyond each end of the sleeve width.



Wipe clean or air blast the steel and coated areas to remove foreign materials.

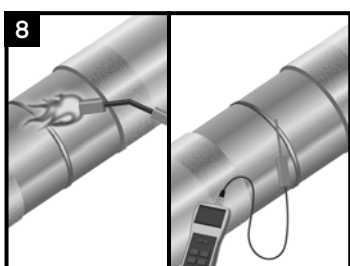
Flame Intensity & Torch Size



Minimum Torch Size:
150,000 BTU/hr.

Use moderate flame intensity for pre-heating and shrinking.

Pre-Heat

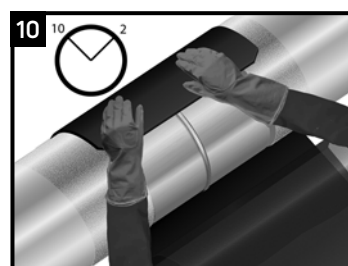


Pre-heat the joint area to the minimum of 65°C (150°F). Using a temperature measuring device, ensure that the correct temperature is reached on the steel and at least 50mm (2") on each side of the sleeve.

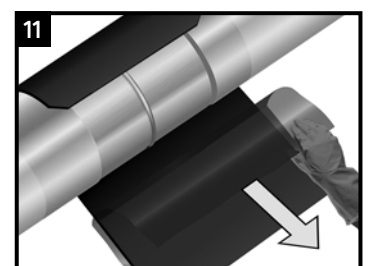
Sleeve Installation



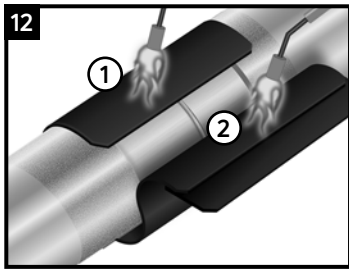
Partially remove the release liner and gently heat the underlap approximately 150 mm (6") from the edge.



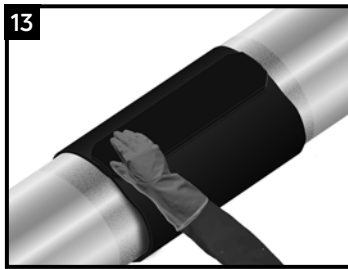
Centre the sleeve over the joint so that the sleeve overlaps between the 10 and 2 o'clock positions. Press the underlap firmly into place.



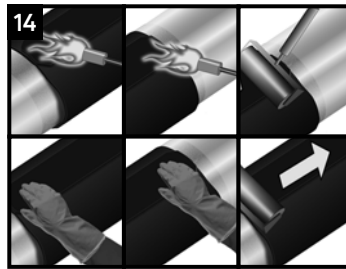
Remove the remaining release liner.



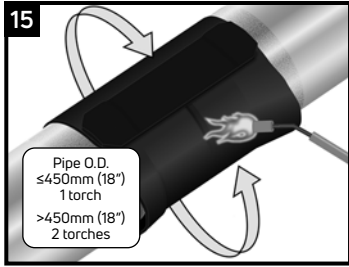
Wrap the sleeve loosely around the pipe, ensuring the appropriate overlap. Gently heat the backing of the underlap and the adhesive side of the overlap. Press the overlap into place.



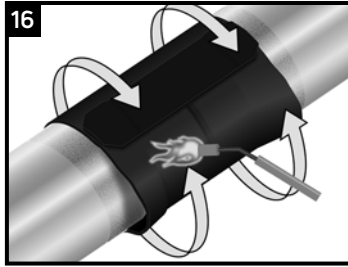
Centre the closure on the overlapping sleeve. Press down firmly.



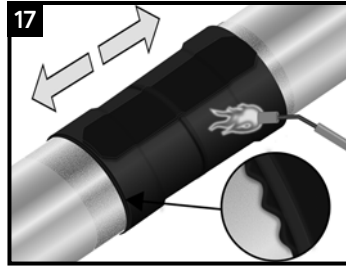
Gently heat the closure and pat it down with a gloved hand. Repeating this procedure, move from one side to the other. Smooth any wrinkles by gently working them outward from the centre of the closure with a roller.



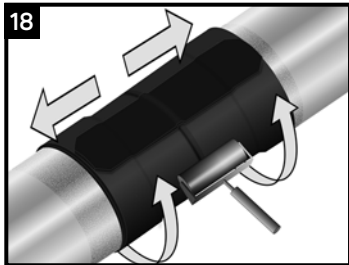
Using the appropriate sized torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.



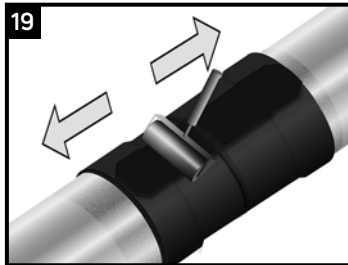
Continue heating from the centre toward one end of the sleeve until recovery is complete. In a similar manner, heat and shrink the remaining side.



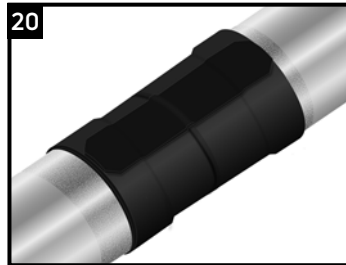
Shrinking has been completed when the adhesive begins to ooze at the sleeve edges all around the circumference. Finish shrinking the sleeve with long horizontal strokes over the entire surface to ensure a uniform bond.



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. If necessary, reheat to roll out air.



Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.



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, based on ambient conditions, allow the sleeve sufficient time to cool before handling. The pipe may be lowered and backfilled if the sleeve temperature is less than 40°C. For onshore applications, water quenching is an acceptable step that can be taken to lower the surface temperature. For offshore, if the field joint is to be infilled, water quenching is not necessary. To prevent damage to the sleeve during laying and backfilling, use selected backfill material with no sharp stones or large particles. Alternately, protect the sleeve with an extruded polyethylene mesh or other suitable protective shield as approved by the Manufacturer.

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 at info@canusacps.com.

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. 99060-190
IG_K-60 (CanusaWrap)_rev015

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