

UltraSeal™

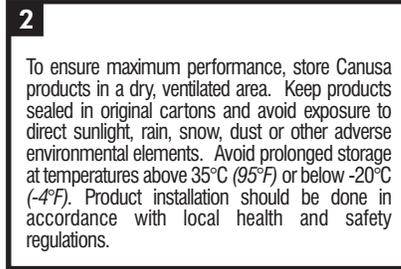
One-piece sleeve with pre-attached closure for pre-insulated pipes

Product Description



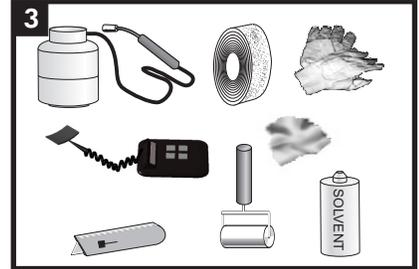
Canusa UltraSeal™ sleeves are shipped pre-cut with a pre-attached closure. The adhesive is protected from contamination by an inner liner.

Storage & Safety Guidelines



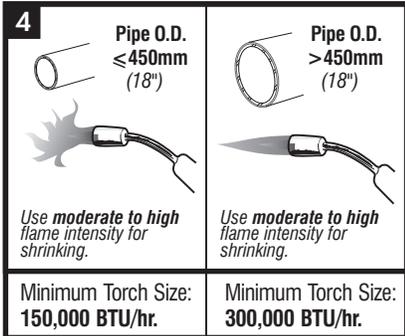
These installation instructions are intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

Equipment List

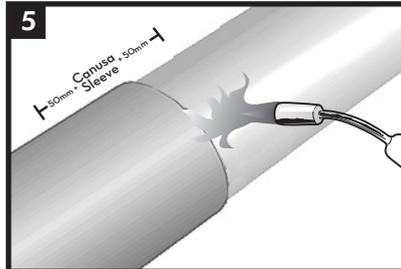


Propane tank, hose, torch & regulator
Appropriate tools for surface abrasion (40-60 grade sandpaper) Knife, roller, rags & approved solvent cleanser
Digital thermometer with suitable probe
Standard safety equipment; gloves, goggles, hard hat, etc.

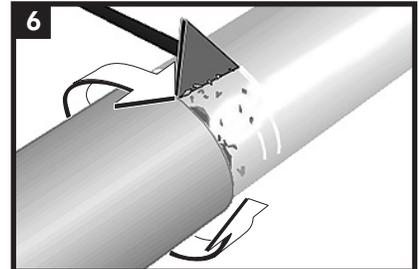
Flame Intensity & Torch Size



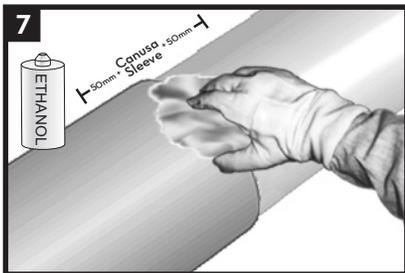
Surface Preparation



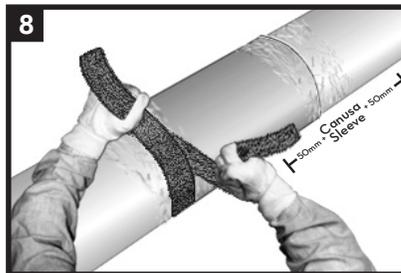
Dry the surface of the casing and jacket pipe (width of sleeve + 50 mm on each side) with the torch. Use high intensity flame for pre-heating. Clean the surface with a dry, grease and lint-free rag to remove any grease or dirt.



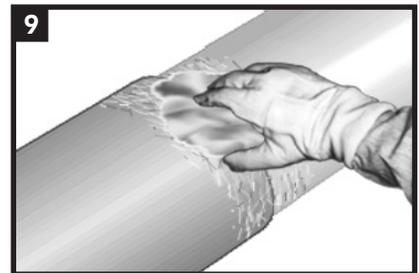
Clean the edges of the casing to remove any sharp corners and burrs, foam and dirt, using a triangular scraper.



De-grease the surface (width of sleeve + 50 mm on each side) using a grease and lint-free rag soaked in ethanol (min. 94%).

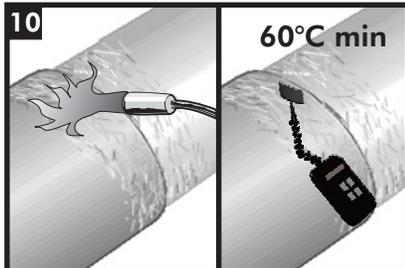


Roughen the surface (width of sleeve + 50 mm on each side) using 40-60 grade sandpaper or a wire brush.

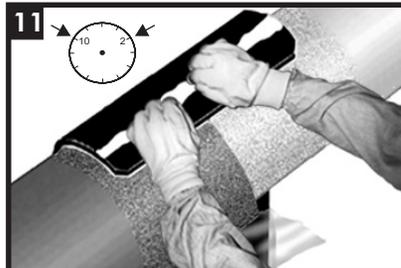


Clean the roughened surface to remove any polyethylene or sand particles, using a dry grease and lint-free rag.

Pre-Heat

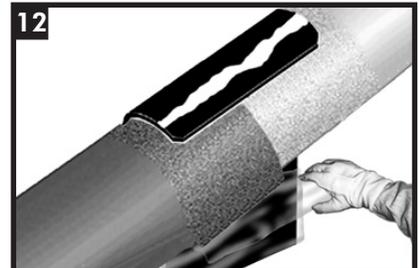


Using the torch, preheat the surface to be covered with the shrink sleeve (casing+pipe) to a minimum of 60°C. Check the temperature all around the surface with a temperature stick.

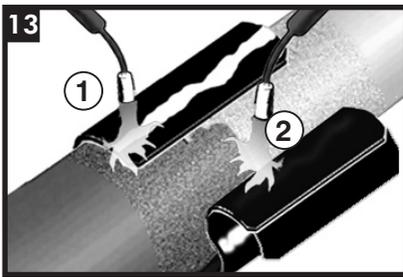


Centre the sleeve over the joint so that the sleeve overlaps between the 10 and 2 o'clock positions. Press the undertlap firmly into place.

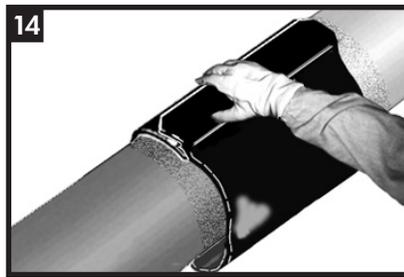
Sleeve Installation



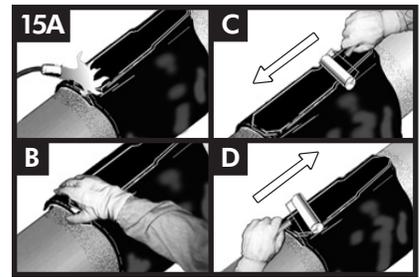
Remove the remaining release liner.



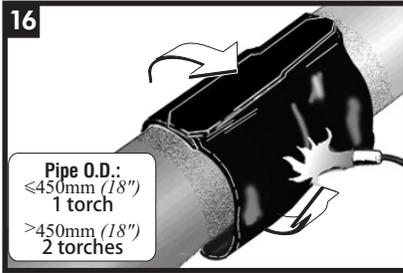
Wrap the sleeve loosely around the pipe, ensuring the appropriate overlap. Gently heat the backing of the underlap and the adhesive side of the overlap.



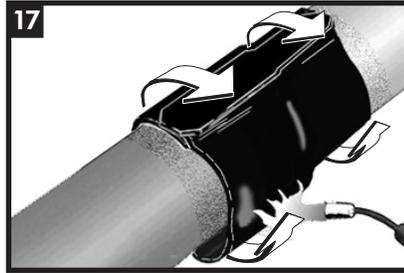
Press the closure firmly into place.



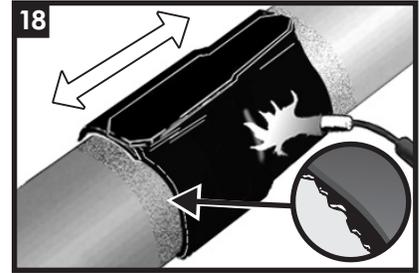
Gently heat the closure and pat it down with a gloved hand. Repeating this procedure, move from one side to the other. Smooth any wrinkles by gently working them outward from the centre of the closure with a roller.



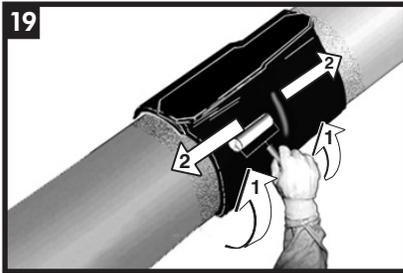
Using the appropriate torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.



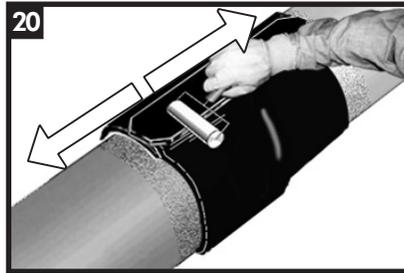
Continue heating from the centre toward one end of the sleeve until recovery is complete. In a similar manner, heat and shrink the remaining side.



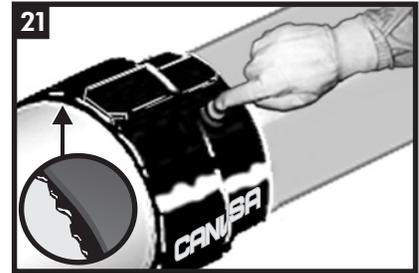
Shrinking has been completed when the adhesive begins to ooze at the sleeve edges all around the circumference and backing becomes smooth (indentations disappear). Finish shrinking the sleeve with long horizontal strokes over the entire surface to ensure a uniform bond.



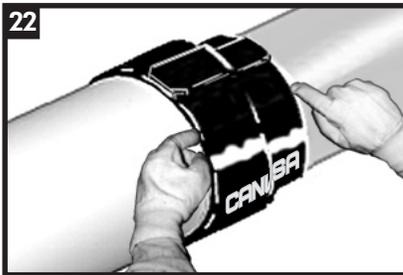
While the sleeve is still hot and soft, use a hand roller to gently roll the sleeve surface and push any trapped air up and out of the sleeve, as shown above. If necessary, reheat to roll out air.



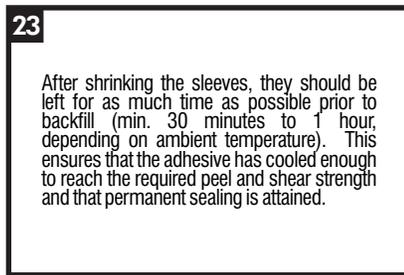
Continue the procedure by also firmly rolling the closure with long horizontal strokes from the weld outwards.



During shrinking, press down on the sleeve to ensure adhesive flow over the entire surface. Special attention should be given along the circumference between 4 and 8 o'clock and along the overlap area. In order to avoid a channel formation at the step down, the sleeve should be pressed down. The shrinking has been completed when an adhesive ooze begins at the sleeve edges all around the circumference.



As a final check, ensure that the sleeve follows the entire contour of the surface and that there are no cold spots or burning of the sleeve. The edges of the sleeve should be sunk into the adhesive ooze and should not lift. This can be checked by feeling the edges all around the circumference of the sleeve. If there is edge lifting, the edge should be reworked with additional heat.



After shrinking the sleeves, they should be left for as much time as possible prior to backfill (min. 30 minutes to 1 hour, depending on ambient temperature). This ensures that the adhesive has cooled enough to reach the required peel and shear strength and that permanent sealing is attained.

Quality Check



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