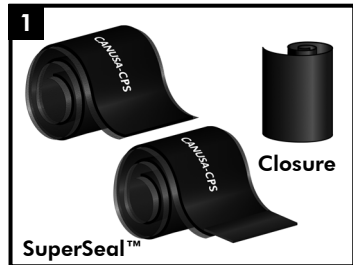


SuperSeal™

Heat Shrinkable Sleeve for Protection of Pre-Insulated Pipe Joints

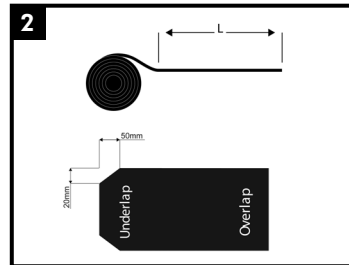
Bulk Rolls (B Configuration) and Pre-Cut Sleeves with Pre-Attached Closures (WS Configuration)

Product Description



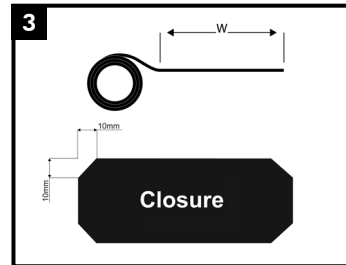
Canusa SuperSeal™ sleeves are shipped in **bulk rolls (SuperSeal™ B)** or **pre-cut with a preattached closure (WS Configuration)**. Separate closure tape is required for bulk material. The adhesive is protected from contamination by an inner liner.

Cutting Sleeve (Bulk Rolls)



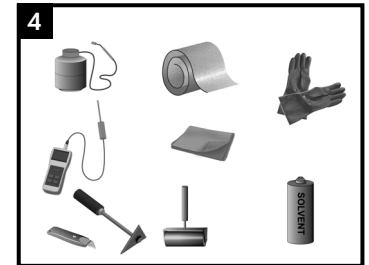
Cut the required length (L) of sleeve material from the bulk roll.
SuperSeal™ - B (L=circumference of casing + 120 mm)
Corner cuts: Underlap~20 X 50mm
 To ensure that the sleeve is ready for installation, make sure that there is no dirt or moisture on the sleeve and that the sleeve is not damaged.

Cutting Closure (Bulk Rolls)



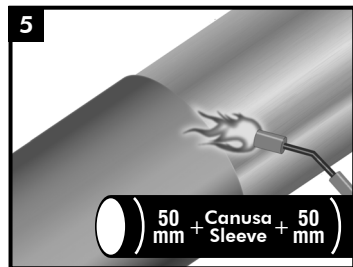
Cut the required length (W) of closure material from the bulk roll.
Closure (W=sleeve width less 5mm)
Corner cuts: All corners (10 X 10 mm)
 To ensure that the closure seal is ready for installation, make sure that there is no dirt or moisture on the closure seal and that the closure seal is not damaged.

Equipment List

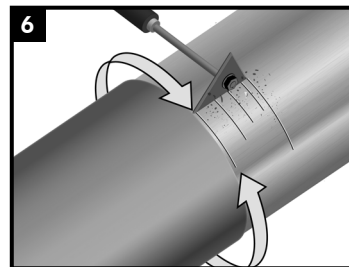


Propane tank, hose, torch & regulator
 Appropriate tools for surface abrasion: 40-60 grade sandpaper, knife, roller, triangular scraper, rags & approved solvent cleanser
 Digital thermometer with suitable probe
 Standard safety equipment; gloves, goggles, hard hat, etc.

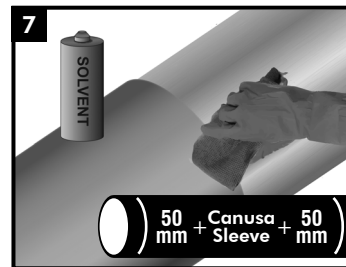
Surface Preparation



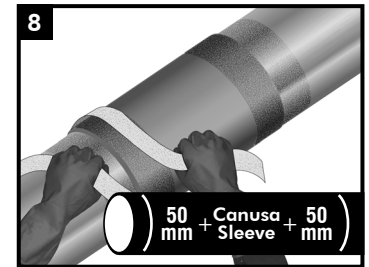
Dry the surface of the casing and jacket pipe (width of sleeve + 50 mm on each side) with moderate flame intensity. Clean the surface with a dry, grease and lint-free rag to remove any grease or dirt.



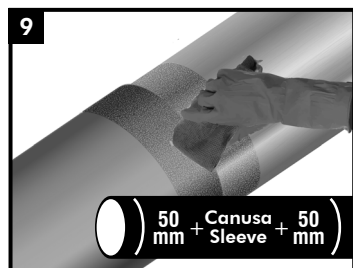
Clean the edges of the casing to remove any sharp corners and burrs, foam and dirt, using a triangular scraper.



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

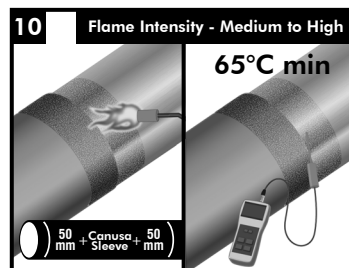


Roughen the surface (width of sleeve + 50 mm on each side) using 40-60 grade sandpaper.



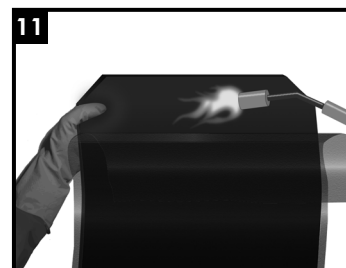
Clean the roughened surface to remove any polyethylene or sand particles, using a dry grease and lint-free rag.

Pre-Heat

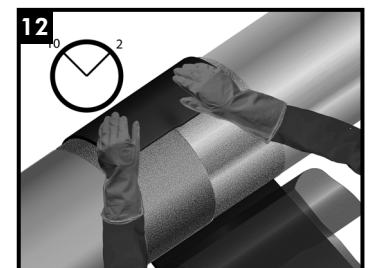


Using medium to high intensity flame, pre-heat and activate the surface to be covered with heat shrink sleeve and **min 50 mm** on each side of the sleeve to a minimum temperature of 65°C. The flame shall be kept perpendicular to the surface of the pipe and casing during pre-heating. Check the temperature around entire circumference of the pipe with a touch probe.

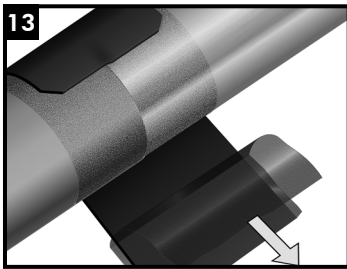
Sleeve Installation



Partially remove the release liner from the sleeve (~15 cm from the edge) and gently heat the adhesive along the underlap with a torch.

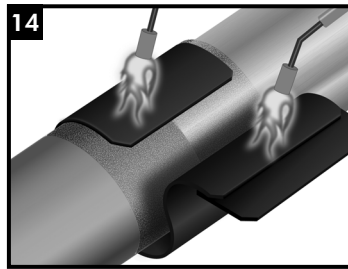


Centre the sleeve over the area to be sealed, so that the sleeve overlaps between the 10 and 2 o'clock positions. Press the underlap firmly into place.



Remove the remaining release liner.

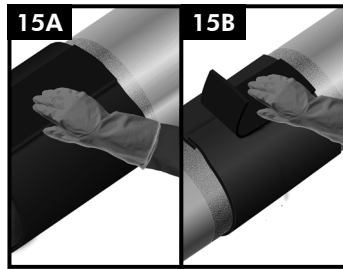
Sleeve Installation



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

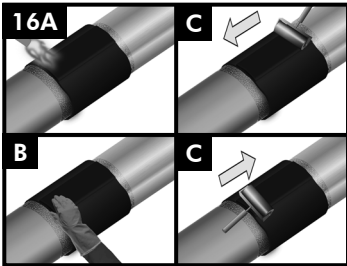
*Sleeve with pre-attached closure shown.

Closure Application

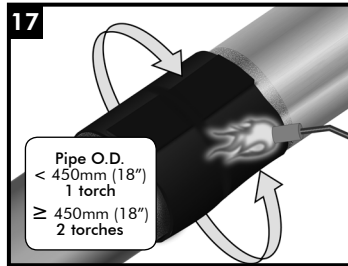


Pre-cut sleeves with pre-attached closure: Press the closure firmly into place.

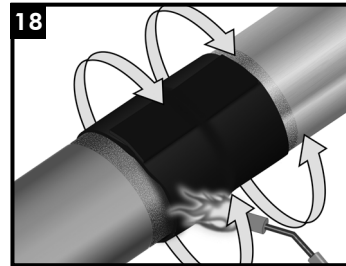
Bulk Sleeve Roll with separate closure: Center the closure over the overlap and press it down



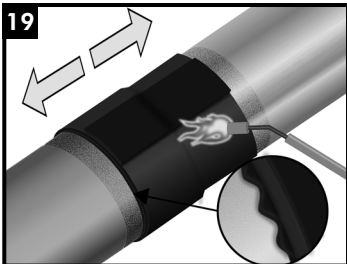
Gently heat the closure and pat it down with a gloved hand. Repeating this procedure, move from one side to the other. Smooth any wrinkles by gently working them outward from the centre of the closure with a roller or by patting the closure down.



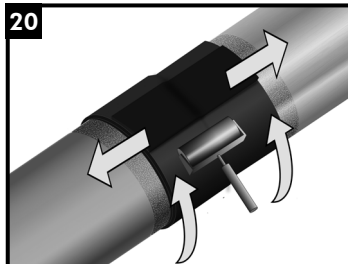
Using the appropriate torch, begin at the centre of the sleeve and heat circumferentially around the pipe. Use broad strokes. If utilizing two torches, operators should work on opposite sides of pipe.



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. **Make sure the edges of the sleeve are not lifting anywhere around the circumference of the pipe.** Finish shrinking the sleeve with long horizontal strokes over the entire surface to ensure a uniform bond.



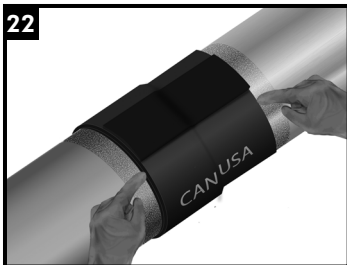
While the sleeve is still hot and soft, use a hand roller to gently roll the sleeve surface and push any trapped air out and out of the sleeve, as shown above. If necessary, reheat to roll out air.

Quality Check

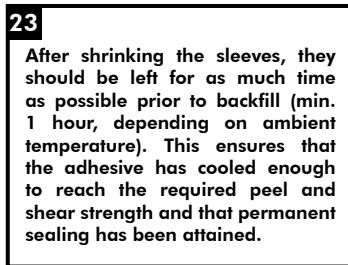


After shrinking, press down on the sleeve to ensure adhesive flow over the entire surface. Special attention should be given along the circumference between 4 and 8 o'clock and along the overlap area. In order to avoid a channel formation at the step down, the sleeve should be pressed down. The shrinking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

Recommendations



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. **Make sure the edges of the sleeve are not lifting anywhere around the circumference of the pipe.** 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. 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 has been attained.

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-CPS A division of ShawCor Ltd.

Head Office

25 Bethridge Rd.
Toronto, ON M9W 1M7 Canada
Tel: +1 416 743 7111
Fax: +1 416 743 5927

Canada

Suite 3200, 450 - 1st Street S.W.
Calgary, AB T2P 5H1 Canada
Tel: +1 403 218 8207
Fax: +1 403 264 3649

Americas

3838 N. Sam Houston Pkwy E.
Suite 300
Houston, TX 77032
Tel: +1 281 886 2350
Fax: +1 281 886 2350

Europe, Middle East, Africa & Russia

Unit 3, Sterling Park,
Gatwick Road, Crawley, West Sussex
RH10 9QT United Kingdom
Tel: +44 1293 541254
Fax: +44 1293 541777

Asia-Pacific

101 Thomson Road,
#11-03 United Square
307591 Singapore
Tel: +65 6749 8918
Fax: +65 6749 8919

Canusa-CPS is registered to ISO 9001:2008

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. 99060-261

IG_SuperSeal (Wrap)_rev012