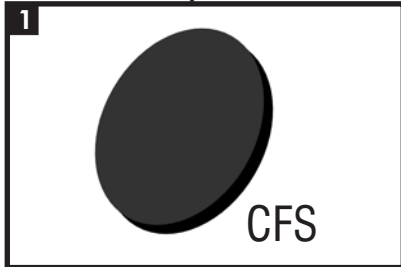


Canusa Foam Seal - CFS

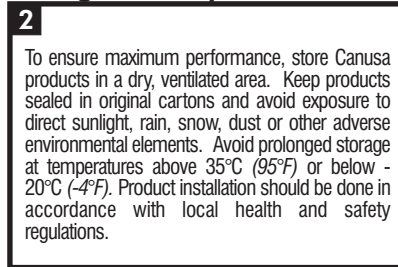
Seal patch for casing foaming holes

Product Description



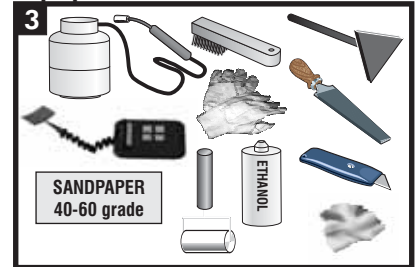
The Canusa Foam Seal (CFS) is a crosslinked casing foaming hole patch.

Storage & Safety Guidelines



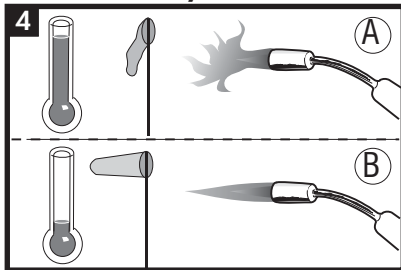
These installation instructions are intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

Equipment List



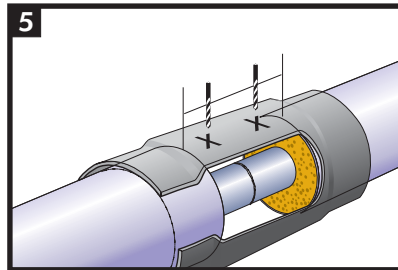
Propane tank, hose, torch & regulator
Sandpaper (40-60 grade) or wire brush
Knife, roller, rags & ethanol (min. 94%) cleanser
Temperature measuring device, grater, triangular scraper
Standard safety equipment; gloves, goggles, hard hat, etc.

Flame Intensity

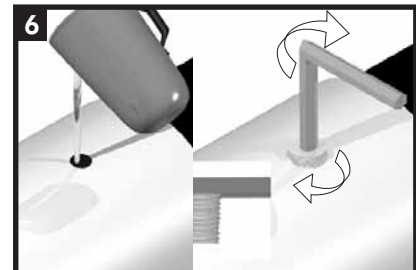


Adjust the flame according to outside conditions.
a. Use bluish-yellow flame for low wind, higher temps.
b. Use blue flame for high wind, lower temperatures.
Always aim the torch perpendicular to the pipe and move in a circumferential direction.

Foaming

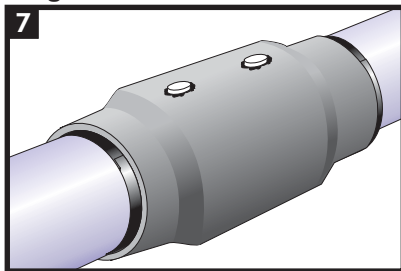


Drill one foaming hole over the pressure testing hole. Drill the other foaming hole, if required (as close as possible to the cutback).



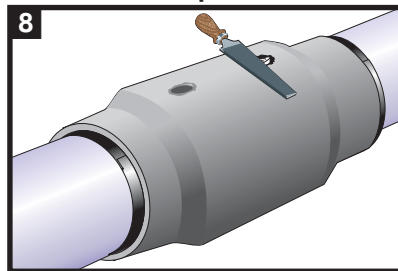
Foam the joint according to the manufacturer's guideline using standard vent plugs to seal the foaming holes.

Plugs



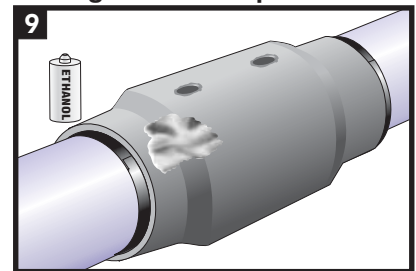
After the foam has hardened, remove the vent plugs and weld the standard weldable plugs.

Foam Hole Preparation

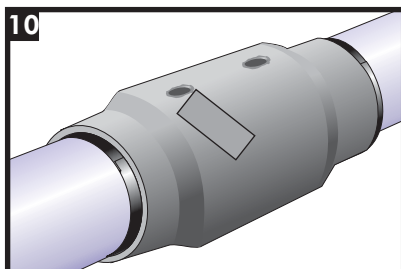


Using a grater, sand down the plugs bringing them flush to the surface of the casing.

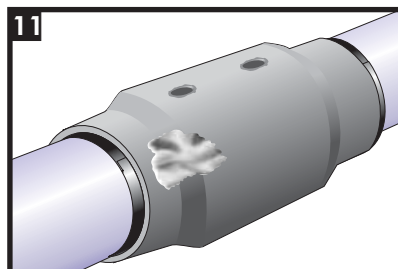
Casing Surface Preparation



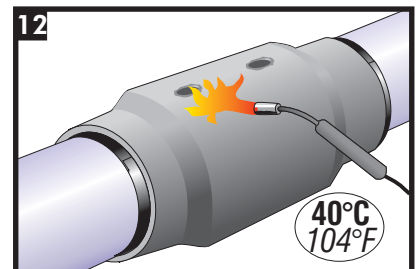
De-grease the surface of the casing using a grease and lint-free rag soaked in ethanol.



Roughen the surface around the plug using 40-60 grade sandpaper or wire brush.



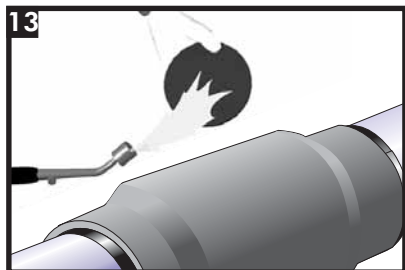
Pre-Warm



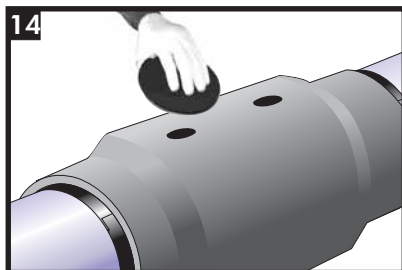
Pre-warm the casing surface around the foaming hole to 40°C. Check the temperature using a temperature measuring device.

Canusa Foam Seal - CFS

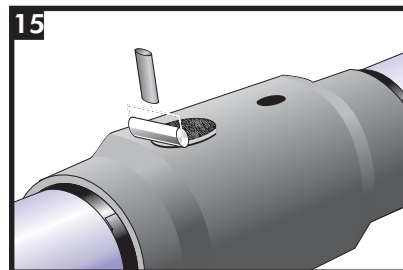
CFS Installation



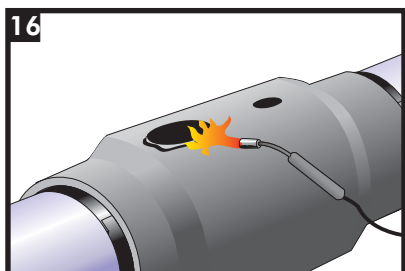
Heat the adhesive side of the CFS with a medium intensity flame until the adhesive turns glossy thus indicating that the adhesive has been activated.



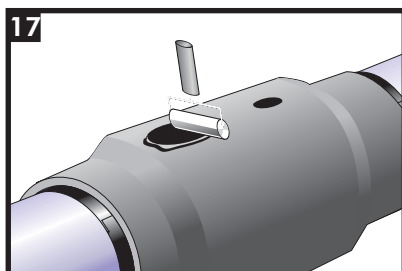
Place the CFS onto the pre-cleaned and pre-warmed section of casing directly over the centre of the foaming hole.



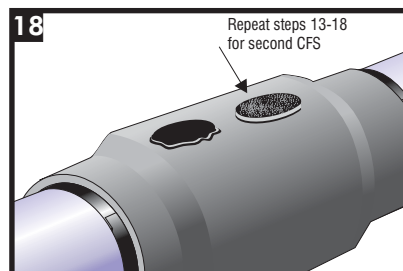
Using a gloved hand or roller, pat down the CFS for about 5 seconds, or until the entire CFS surface makes good contact with the casing.



Using a medium flame, heat the backside of the CFS until the adhesive oozes from the edge of the patch.

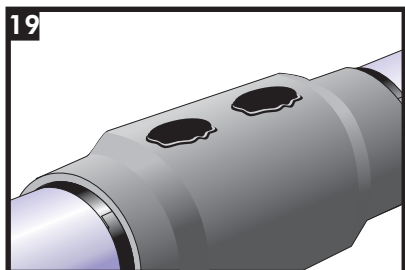


Using a roller and a gentle flame, smooth out the CFS surface.



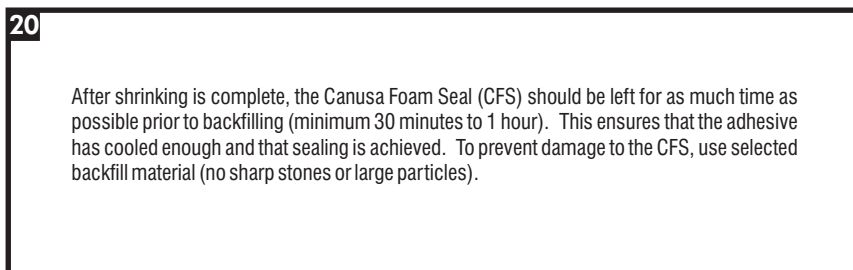
The CFS has been fully installed when adhesive can be seen around the entire circumference. Repeat steps 13-18 to patch the other foaming hole.

Installation Complete



The CFS has been fully installed when adhesive can be seen around the entire circumference. Visually inspect that the patch for any breaks or holes.

Backfilling Procedures



After shrinking is complete, the Canusa Foam Seal (CFS) should be left for as much time as possible prior to backfilling (minimum 30 minutes to 1 hour). This ensures that the adhesive has cooled enough and that sealing is achieved. To prevent damage to the CFS, use selected backfill material (no sharp stones or large particles).



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