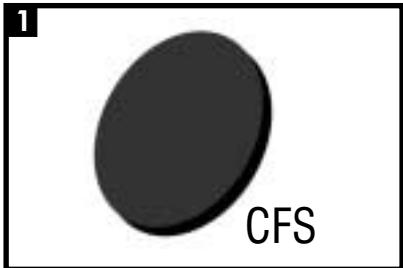


Canusa Foam Seal - CFS

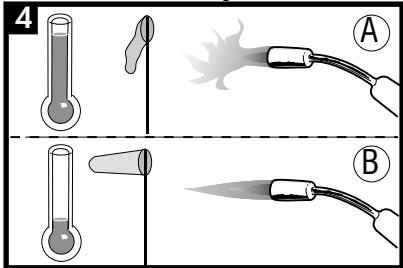
Seal patch for casing foaming holes

Product Description



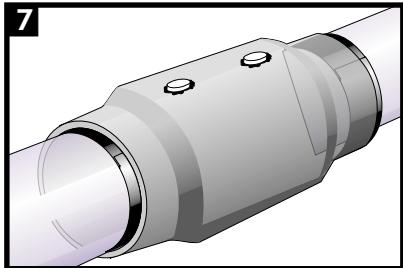
The Canusa Foam Seal (CFS) is a crosslinked casing foaming hole patch. It has a serrated adhesive coating which melts during installation.

Flame Intensity

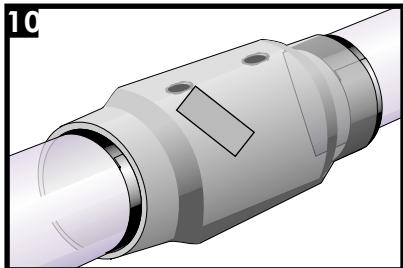


Adjust the flame according to outside conditions.
a. Use bluish-yellow flame for low wind, higher temps.
b. Use blue flame for high wind, lower temperatures.
Always aim the torch perpendicular to the pipe and move in a circumferential direction.

Plugs



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



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

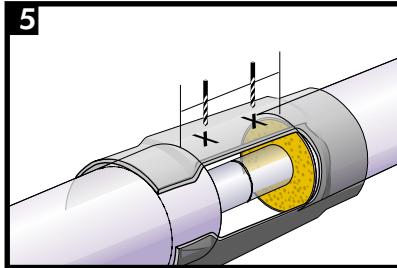
Storage & Safety Guidelines

2

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.

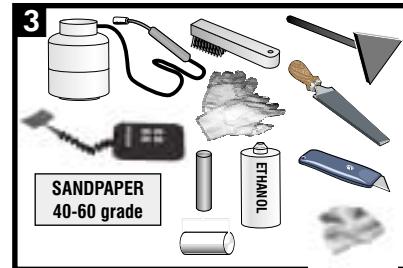
These installation instructions are intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

Foaming

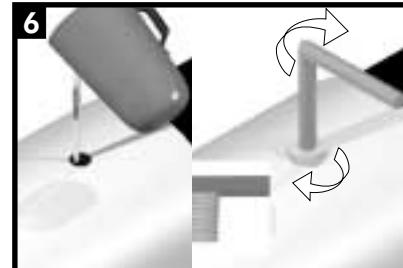


Drill one foaming hole over the pressure testing hole. Drill the other foaming hole, if required (as close to the shrinkable end as possible while remaining in the cutback area).

Equipment List

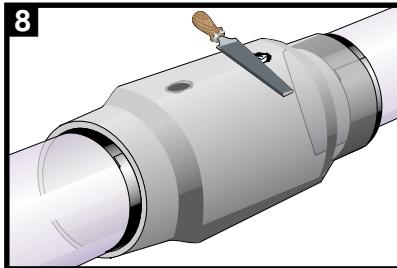


Propane tank, hose, torch & regulator
Sandpaper (40-60 grade) or wire brush
Knife, roller, rags & ethanol (min. 94%) cleanser
Temperature measuring device, grater, triangular scraper
Standard safety equipment: gloves, goggles, hard hat, etc.



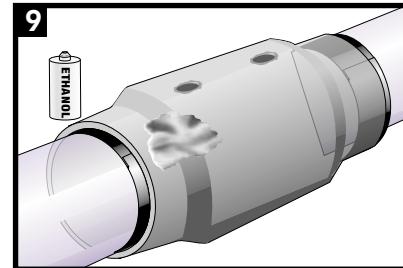
Foam the joint according to the manufacturer's guideline using standard foaming plugs to seal the foam holes.

Foam Hole Preparation



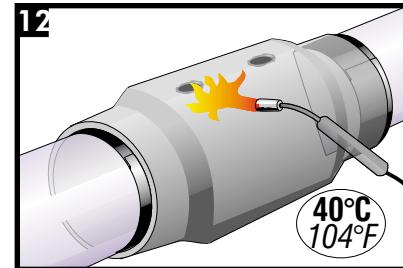
Using a grater, sand down the plugs bringing them flush to the surface of the casing.

Casing Surface Preparation



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

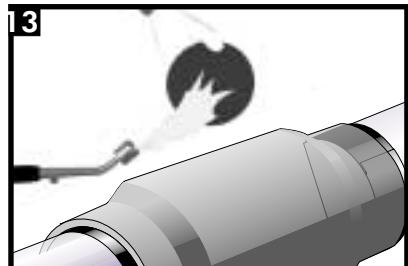
Pre-Warm



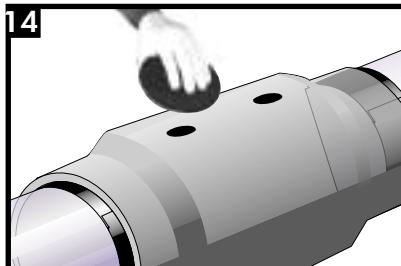
Pre-warm the casing surface around the foaming hole to 40°C. Check the temperature using a temperature measuring device.

Canusa Foam Seal - CFS

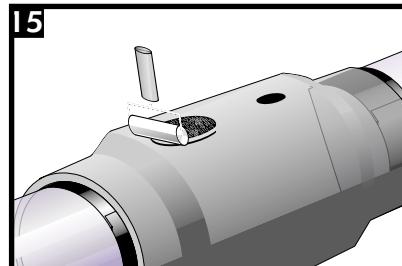
CFS Installation



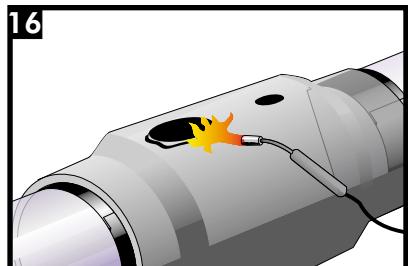
Heat the adhesive side of the CFS with a medium intensity flame until the adhesive serrations disappear (adhesive will melt).



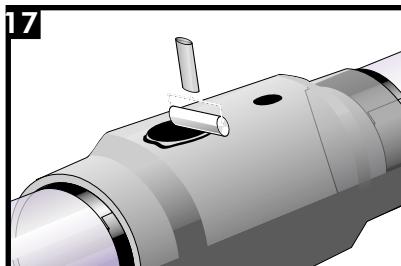
Place the CFS onto the pre-cleaned and pre-warmed section of casing directly over the centre of the foaming hole.



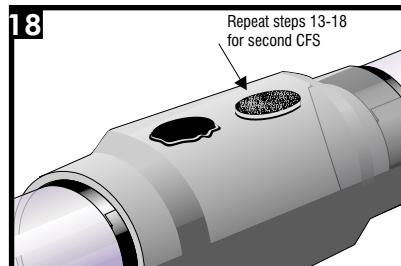
Using a gloved hand or roller, pat down the CFS for about 5 seconds, or until the entire CFS surface makes good contact with the casing.



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

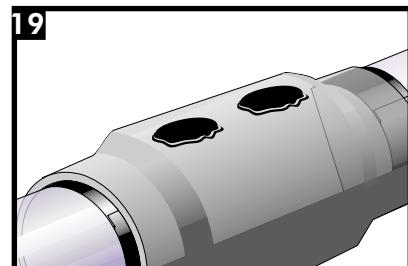


Using a roller and a gentle flame, smooth out the CFS surface.



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

- 20 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).



A SHAWCOR COMPANY

Canada

CANUSA-CPS
a division of SHAWCOR LTD.
25 Bethridge Road
Rexdale, Ontario
M9W 1M7,
Canada
Tel: +1 (416) 743-7111
Fax: +1 (416) 743-5927

U.S.A./Latin America

CANUSA-CPS
a division of SHAWCOR INC.
2408 Timberloch Place
Building C-8
The Woodlands, Texas
77380, U.S.A.
Tel: +1 (281) 367-8866
Fax: +1 (281) 367-4304

Europe/Middle East

CANUSA-CPS
a division of Canusa Systems Ltd.
Unit 3, Sterling Park
Gatwick Road
Crawley, West Sussex
England RH10 9QT
Tel: +44 (1293) 541254
Fax: +44 (1293) 541777

Asia/Pacific

CANUSA-CPS
BrederoShaw (S) Pte Ltd
101 Thomson Road
#17-01/02, United Square
Singapore 307591
Tel +65-6732-2355
Fax +65-6732-9073

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