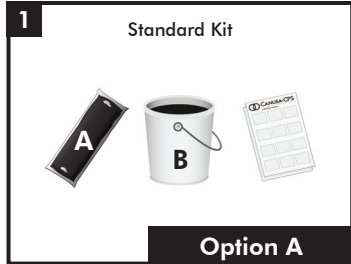


HBE COLD Weather Brush Grade

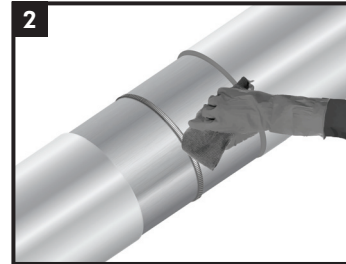
High Build Liquid Coating

Kit Contents (Options A and B)

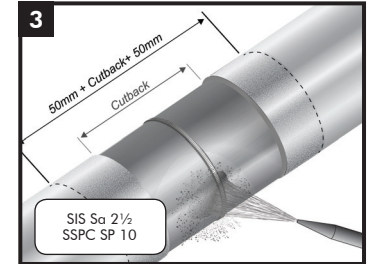


HBE COLD Weather is a two part liquid coating used for pipeline rehabilitation and protection of pipeline valves, fittings and field joints. HBE COLD Weather is supplied in kits containing pre-measured components of Part A - Cure (bubble pack) and Part B - Base (large containers). The "Standard Kit" contains the HBE COLD Weather components while the "Complete Field Ready Kit" also includes a stir stick, scraper and gloves. All kit styles are supplied with Installation Guides and MSDS's.

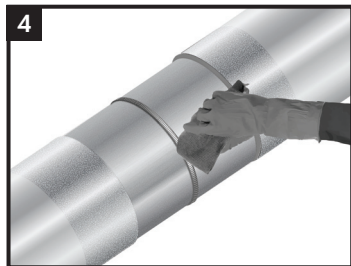
Surface Preparation



Clean exposed steel and adjacent pipe coating according to SSPC SP 1 to remove the presence of oil, grease, and other contaminants. Ensure that the pipe is at least 3°C (5°F) above the dew point before cleaning.

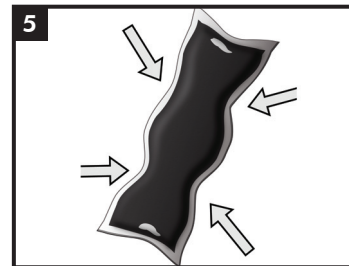


Thoroughly clean the cutback area to "near white metal" SIS Sa 2½ (SSPC-SP10) or equivalent. Materials used for abrasive blasting shall produce an angular surface profile of 2.5-5 mils (64-127 μm) Lightly abrade at least 50 mm (2") of the mainline coating on each side of cutback area.



Wipe clean with a lint-free cloth or air blast the steel and pipe coating to remove foreign contaminants. Surface must be clean and dry prior to application of HBE products.

Mixing



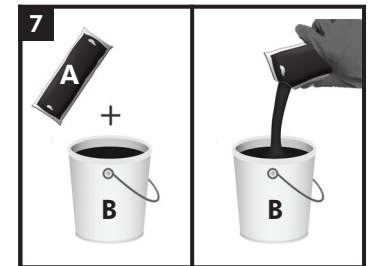
Mix the contents together by kneading the package. Ensure to work the material from the corners.

Bag Opening



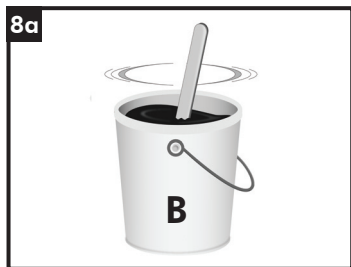
Cut corner to open Part A - Cure package.

Options A and B Mixture Kits



Pour Part A - Cure (bubble pack) into Part B - Base (large container). Scrape walls and lids of both containers to ensure all product is used. When mixing, slow the mixer down at the surface of the liquid to prevent the introduction of air into the coating. Do not add solvent or other materials to the mixture.

Stirring Kits

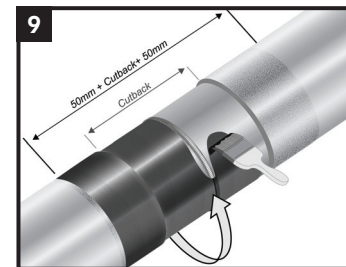


Begin mixing slowly. After initial mix has been achieved, a spatula or mixing stick should be used to remove any material from the side of container.



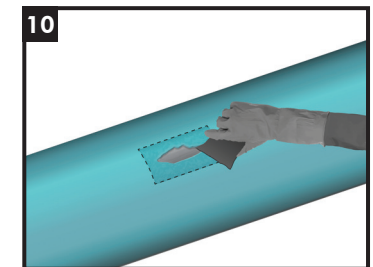
Mix at such a speed that ensures a uniform colour, but does not create a vortex in the liquid. Mix with a drill stirrer or a spatula, blending both parts to create one uniform colour with no streaks.

Application



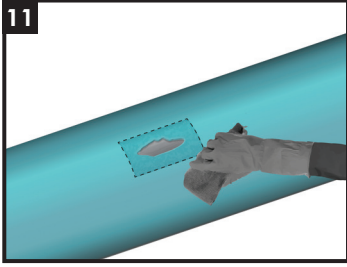
Use a brush, roller or trowel to apply HBE to the joint or application area to a specified minimum thickness. Cover at least 50mm (2") of any adjacent pipeline coating. The substrate temperature range for application is -20°C (-4°F) to 23°C (73°F) and when the ambient temperature is 3°C (5°F) above the dew point. Refer to "Useful Application Information" for other application temperature criteria.

Repair Surface Preparation

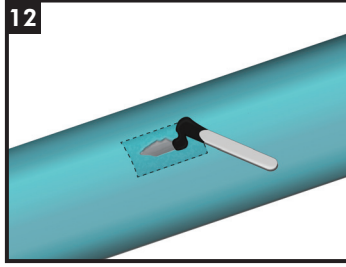


Lightly abrade with clean abrasive grit/sand paper, approximately 15 mm (0.5") around the repair area.

Repair Application



Wipe clean with a lint-free cloth or air blast the steel and pipe coating to remove foreign contaminants. Surface must be clean and dry prior to application of HBE COLD Weather.



Use clean trowel, stir stick or other application tool to apply HBE COLD Weather to repair area plus abraded perimeter to specified minimum thickness.

Useful Application Information

The workable pot life after mixing is approximately 35 minutes at 0°C (32°F). Pot life will be extended at lower temperatures and shortened at higher temperatures.

To expedite the coating cure schedule: pipe substrate may be pre-heated to a minimum of 3°C (37°F) above the dew point temperature by means of propane torch, hot air gun, or induction coil, to a maximum of 25°C (77°F).

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. HBE COLD Weather should be stored in original packaging between 0.5°C and 27°C (33°F - 80°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.

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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

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