

HBE COLD Weather

High build liquid coating for low temperature applications

The Canusa HBE COLD Weather is an advanced liquid coating specifically designed for cold weather application. The high build formulation is capable of curing fast when applied to colder substrates at colder ambient temperatures – even down to subzero conditions of -20°C (-4°F). Applied to bare steel, the HBE COLD Weather coating is used for protection of pipeline field joint girth welds, valves and fittings, as a holiday repair material on FBE coated mainline pipe or for pipeline coating rehabilitation.

Cures in the Winter

- The HBE COLD Weather coating will cure in the Winter season without the requirement of external heat. Just apply it and leave it. No preheating or post heating necessary.

Superior Corrosion Resistance

- Canusa's HBE COLD Weather coating has proven to outperform competitive equivalents in a variety of different test methods including cathodic disbondment, hot water soak and impact resistance.

Saves Time

- The fast cure formulation allows for quick handling and quick backfilling for an efficient end-to-end coating process.

High Build in Single Coat

- A single pass application direct-to-metal will achieve a high build coating thickness of 20-40 mils (500-1000 microns)

Variety of Uses

- Field joint girth welds, valves and fittings, holiday repair material on FBE mainline pipe, pipeline rehabilitation or new construction.



Applications



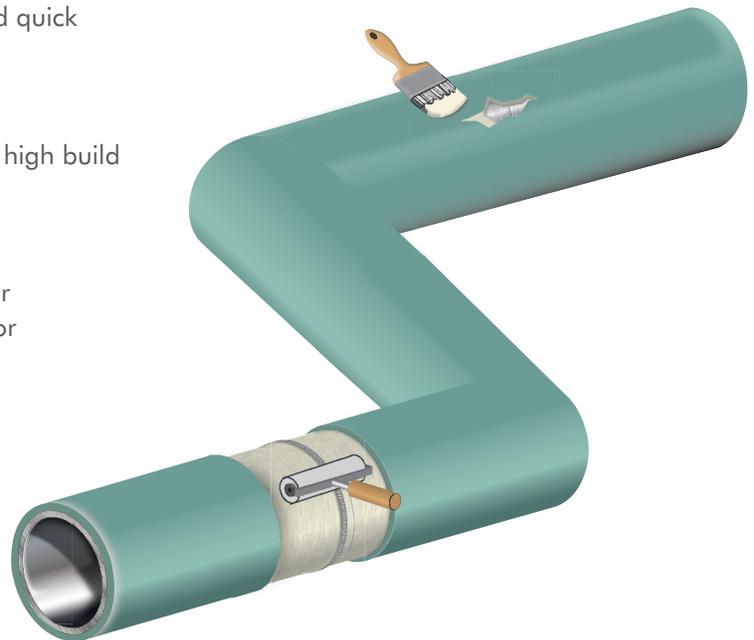
Oil & Gas



Repair & Rehab



Low Temperature



HBE COLD Weather

Performance	All performance testing followed CSA-Z245.20-10 unless specified.
Service Temperature	-40°C to 65°C (-40°F to 150°F)
Mixing Ratio	12.5:1 (by volume) 11.5:1 (by weight)
Percent Solids	100%
Specific Gravity	Base: 1.45 ± 0.02 Cure: 1.58 ± 0.04
Viscosity	Base: 52,500 @ 24°C, #7 Spindle, 20 rpm Cure: 3,500 @ 24°C, #5 Spindle, 100 rpm
Typical Coating Thickness	20-40 mils (500-1000 microns)
Pot Life/Gel Time (100g Sample)	13 minutes @ 23°C (73°F) 35 minutes @ 0°C (32°F) 55 minutes @ -10°C (14°F) Pot Life increases as temperature decreases
Minimum Curing Temperature (surface)	-20°C (-4°F)
Cathodic Disbondment 28 days, 23°C	4.1 mm when cured @ 23°C 7.0 mm when cured @ -10°C
Cathodic Disbondment 28 days, 50°C	10.0 mm when cured @ -10°C
Hot Water Soak 28 days, 50°C & 95°C	Rating 1
Impact Resistance (cured @ -10°C)	>3.0 J when tested @ 0°C to -40°C
Hardness (ASTM D2240)	>87 Shore D
Adhesion to Steel (ASTM D4541)	11.5 MPa (>1650 psi)
Shelf Life	12 months when stored in original packaging between 0.5°C – 27°C (33°F – 80°F)
Typical Kit Size Required by Pipe Diameter ¹	
4.5" – 26"	0.8 Liter Kit
28" to 50"	1.5 Liter Kit

¹ Based on 400 mm coating width, 25 mils (635 micron) average thickness and 50% wastage factor.

Epoxy Consumption is based on the following variables and will differ between applications:

- Applicator Type (roller or sponge)
- Surface Profile
- Applicator Skill
- Pipeline Layout

Safety

Handle with care. Before and during use, observe all safety labels on packaging containers, consult with Canusa-CPS Material Safety Data Sheets and abide by all local or national safety regulations.

Since 1967, Canusa-CPS has been a leading developer and manufacturer of specialty pipeline coatings for the sealing and corrosion protection of pipeline joints and other substrates. Canusa-CPS high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate many specific project applications.

The product information shown here is 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 product data sheet 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 data sheet is to be used as a guide and is subject to change without notice. This data sheet supersedes all previous data sheets on this product. E&OE

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