

CANUSA-CPS

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Quality Management system
registered to ISO 9001

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Shawcor, the world's leading integrated energy services company, designs and manufactures innovative solutions to protect the integrity of oil and gas, petrochemical, industrial, electrical, and automotive assets around the world. With a focus on five overarching disciplines—Pipeline Performance, Integrity Management, Composite Production Systems, Connectivity and Oilfield Asset Management—Shawcor operates 105 manufacturing and service facilities in 20 countries across the globe.

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HBE LIQUID
COATING SYSTEMS

CANUSA-CPS



THE BENCHMARK: HBE-95

- For pipelines with operating temperatures up to 95°C (203°F)
- Exceeds FBE performance requirements including resistance to cathodic disbondment, in USA (NACE RP0394), and Canadian (CSA Z245.20) test standards
- Key performance features include high gouge, abrasion and impact resistance for horizontal directional drilling
- Brush grade comes with (Fast, Medium or Slow) cure speed options to allow for pot-life flexibility



HIGH TEMPERATURE: HBE-HT

- Unrivaled performance for pipelines operating up to 150°C (302°F)
- Exceeds FBE performance requirements including resistance to cathodic disbondment, hot water soak adhesion and impact strength, as specified in USA (NACE RP0394), and Canadian (CSA Z245.20) test standards
- State-of-the-art formulation to maintain adhesion stability after extended aging



UNIQUE OFFSHORE: HBE-OS

- The only liquid coating of its kind for the offshore market – protecting subsea pipelines with operating temperatures up to 120°C (248°F)
- Enables fast offshore cycle times with low installation temperatures – force cured at 110°C (230°F) in just 60-90 seconds
- Delivers superior mechanical performance and corrosion resistance with perfect interface and cross-sectional porosity ratings



HIGHLY FLEXIBLE: HBE-FLX

- Can attain flexibility properties well-beyond standard liquid epoxy systems
- Coating system designed to protect operating pipelines up to 95°C
- Is fully compliant to CSA Z245.20 and ISO 21809 test standards
- High flexibility, tensile elongation, impact, gouge and abrasion resistance coating properties are maximized for horizontal directional drilling



ABRASION RESISTANT: HBE-ARMOR

- ARO for mainline FBE coated pipelines with operating temperatures up to 95°C (203°F)
- Durably provides the highest resistance to abrasion, gouge and impact forces
- Bonds to FBE and other HBE coatings with tenacious pull-off strength >3,400 psi (>23 MPa)

SINCE 1967, SHAWCOR HAS BEEN A LEADING DEVELOPER AND MANUFACTURER OF SPECIALTY PIPELINE COATINGS FOR THE SEALING AND CORROSION PROTECTION OF FIELD JOINTS AND OTHER SUBSTRATES

Our high performance HBE products are manufactured in Canada to the highest quality standards and have been formulated to be the best performers within each intended market segment.

From low application temperatures to operating temperatures up to 150°C (302°F), the HBE family provides tailored corrosion protection solutions to match various construction methods, pipeline design parameters and service conditions. All HBE coatings are two-component, 100% solids, systems that can be easily applied by spray or brush.

Applied to pipeline field joint girth welds, valves, fittings, bends, as holiday repair to FBE coated pipe, or for pipeline coating rehabilitation projects, HBE is relied upon by the world's leading contractors and end users.



RAPID APPLICATION: THE HBE ATOMIZER SYSTEM

This rapid pneumatic spray system can apply Canusa-CPS HBE liquid epoxy significantly faster than standard brush-applied methods and will provide competitive cycle times in comparison to automated FBE application. The HBE Atomizer setup includes a lightweight and easy-to-use

Atomizer Gun, a custom volume HBE Atomizer Cartridge, and an Atomizer Mixing-Tip Nozzle for automated epoxy mixing.

This installation technology is not only fast, but allows for consistent high build thicknesses and promotes repeatable corrosion resistant coatings – joint after joint. Other key features of the HBE Atomizer system include:

- Proven HBE application to large diameter girth weld field joints at high build thicknesses in less than **45 seconds**
- Fast and efficient – when the cartridge is empty simply replace with a full conditioned cartridge and continue spraying
- Automated in-process mixing to eliminate operator and application errors
- Minimal equipment maintenance and associated downtime versus FBE application
- Consistent output spray pattern and volume – a single pass can achieve a coating thickness of 20-40 mils (500-1,000 microns)

REPAIR APPLICATION

HBE Repair Pack (50 mL) – a convenient field ready kit complete with a two-chamber (3:1) HBE bubble pack, gloves and applicator sponge.

HBE Repair Cartridge (400 mL) – with an HBE Cartridge Dispenser and Disposable Mixing Nozzle, apply the HBE directly to the intended repair area.

