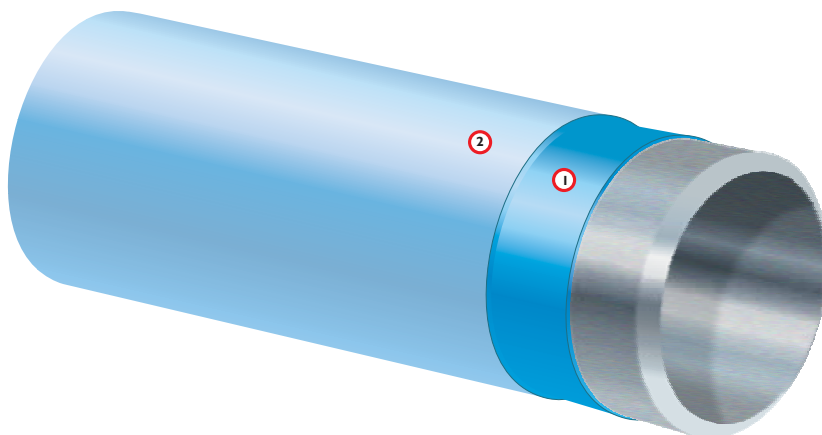


Dual Layer FBE

Dual Layer Abrasion Resistant Fusion Bond Epoxy Coating



- ① Anti-Corrosion Coating ② Abrasion Resistant Overcoat

PRODUCT DESCRIPTION

Dual Layer Abrasion Resistant FBE Systems provide excellent properties for a variety of service applications which may include directional drilling and anti-abrasion for road and river crossings, and elevated temperatures in wet environments and anti-slip applications.

FEATURES AND BENEFITS

High operating temperature capabilities

Dual Layer FBE provides excellent adhesion to steel, thereby providing superior long term corrosion resistance and protection of pipelines operating up to 105°C. The superior adhesion properties of the anti-corrosion coating also provides excellent resistance to cathodic disbondment which reduces the cost of cathodic protection during the operation of the pipeline.

Excellent abrasion and impact resistance

This system provides excellent abrasion and impact resistance and sufficient flexibility to protect against possible damage to the anti-corrosion coating during pipe transportation, pipeline construction, road bores, and directional drills.

Improved handling characteristics

Dual Layer FBE provides tough physical properties that minimize damage during handling, transportation, installation and operation.

Fully bendable to 1.5°/pipe diameter length.

Global Availability

Bredero Shaw has a network of 27 coating plants strategically located across 6 continents to minimize pipe transportation costs. Dual Layer FBE can be manufactured in a single plant or in multiple coating plants to improve project logistics. High capacity within the Bredero Shaw plant network allows the client to benefit from single source advantages, ultimately providing more cost effective management of pipe coating needs.

PRODUCT DATA SHEET



Oil & Gas pipelines



Large diameter pipelines



Small diameter pipelines



Waterworks pipelines





Dual Layer FBE



Americas

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Fax: +1-403-264-3649

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TYPICAL PRODUCT PROPERTIES

PROPERTY	Dual Layer FBE
Minimum Recommended Operating Temperature	-40°C (-40°F)
Maximum Recommended Operating Temperature	105°C (220°F)

TYPICAL PLANT CAPABILITIES

Minimum Pipe Diameter	90 mm (3.5")*
Maximum Pipe Diameter	1220 mm (48")
Minimum Pipe Length	5.5 m (18')
Maximum Pipe Length	25.0 m (80')

Values shown are typical and may vary from plant to plant. Consult Shaw for special requirements.

*NPS 3 and 4 depend on wall thickness - contact Shaw for confirmation

QUALITY ASSURANCE

Coating System Compliant to:

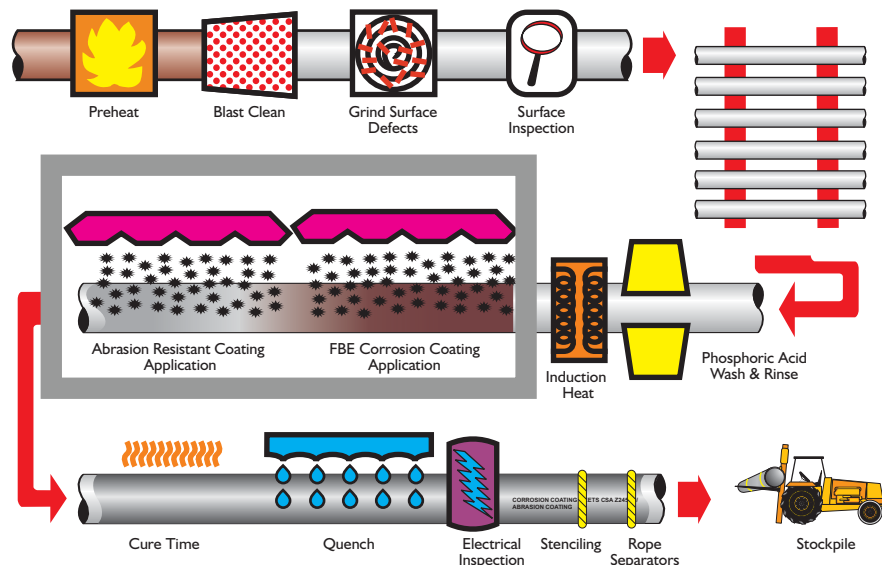
- CSA Z245.20

Quality System Compliant to:

- ISO 9001:2000



PRODUCT APPLICATION PROCESS



PLANTS

Camrose I, Camrose, Alberta	Pearland, Texas	Jubail, Saudi Arabia
Camrose II, Camrose, Alberta	Monterrey, Mexico	Ras Al Khaimah, UAE
Regina, Saskatchewan	Veracruz, Mexico	Kuantan, Malaysia
Portland, Oregon	Belo Horizonte, Brazil	Kabil, Batam Island, Indonesia
Fontana, California	Ellon, Scotland	Kembla Grange, Australia
Vineyard, Utah	Leith, Scotland	

BREDERO SHAW: THE GLOBAL LEADER IN PIPE COATING SOLUTIONS

Bredero Shaw is the world leader in pipe coating solutions, with more than 75 years of experience, over 27 pipe coating facilities on 6 continents and the largest team of technical and service specialists in the business. Bredero Shaw offers technologically advanced solutions for anti-corrosion coatings, protective and weight coatings, thermal flow assurance coatings, internal coatings, custom coatings and field joints for both onshore and offshore applications. This broad range of products and services provides Bredero Shaw with the unique capability to service the full spectrum of pipeline protection and flow assurance requirements. Consult your Bredero Shaw representative for your unique project requirements.

The information contained herein is indicative of the types of coatings provided by Bredero Shaw, and is not intended to be a guarantee that a particular coating will be suitable for a given application. Since many unique environmental, operating, and design conditions must be considered, the user shall determine the suitability of the coating for the intended use and assume all the risks and liabilities in connection therewith. Bredero Shaw's liability is stated in our standard conditions of sale.