



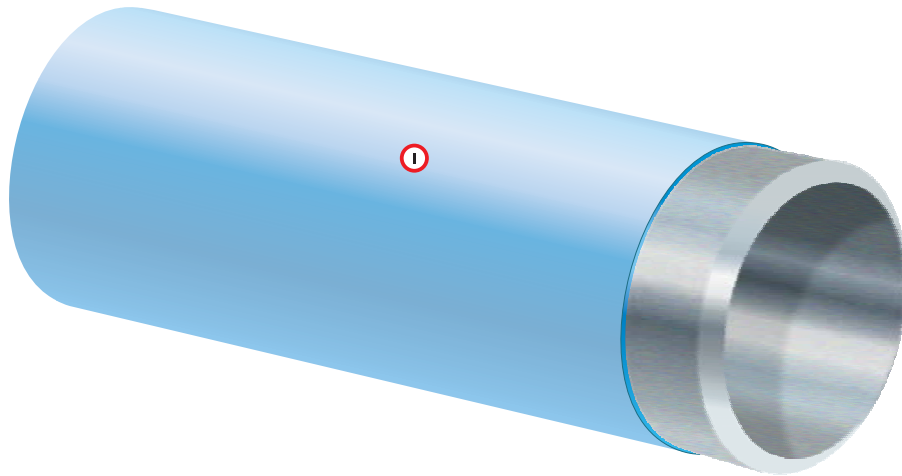
BREDERO SHAW

A SHAWCOR COMPANY

the
**GLOBAL
LEADER**
in pipe coating solutions.

FBE

Fusion Bonded Epoxy Powder Coating



① Fusion Bonded Epoxy

PRODUCT DESCRIPTION

Bredero Shaw is the world's leading provider of Fusion Bonded Epoxy (FBE) coatings. FBE is a high performance anti-corrosion coating that provides excellent protection for small and large diameter pipelines with moderate operating temperatures.

FEATURES AND BENEFITS

Long Term Corrosion Protection

FBE's excellent adhesion to steel provides superior long term corrosion resistance and protection of pipelines operating at moderate temperatures for the designed life. The superior adhesion properties of FBE also provides excellent resistance to cathodic disbondment which reduces the total cost of cathodic protection during the operation of the pipeline.

Engineered Solutions

Advanced manufacturing techniques allow FBE to be customized to your specific project. The system can be applied to various pipe diameters from 90 mm (3.5") to over 1220 mm (48"). FBE can also be applied in a wide range of thicknesses to cost effectively meet unique project specifications and performance requirements.

Good Mechanical and Chemical Protection

FBE can be applied as a dual layer product which provides tough physical properties that minimize damage during handling, transportation, installation and operation. FBE has also been designed for good chemical resistance under most soil conditions.

Global Availability

Bredero Shaw has a network of 27 coating plants strategically located across 6 continents to minimize pipe transportation costs. 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



www.brederoshaw.com



FBE



Americas

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TYPICAL PRODUCT PROPERTIES

PROPERTY	FBE
Minimum Pipe Diameter	90 mm (3.5")
Maximum Pipe Diameter	1220 mm + (48" +)
Minimum Pipe Length	5.5 m (18')
Maximum Pipe Length	24.4 m (80')
Minimum Recommended Operating Temperature	-40°C (-40°F)
Maximum Recommended Operating Temperature	85°C (185°F)

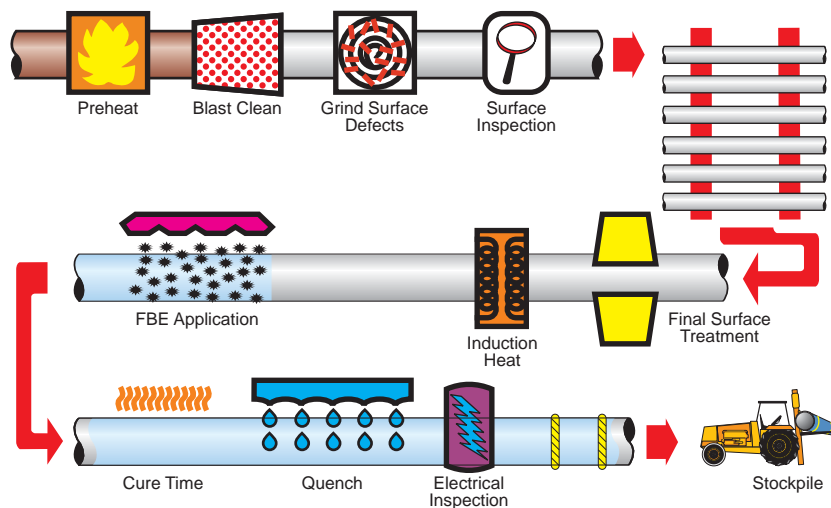
Values shown are typical and may vary from plant to plant. Consult Bredero Shaw for special requirements.

APPROVALS



- CSA Z245.20
- AWWA C 213
- AS3862:2002
- GAZ de France R 09
- GBE/CW 6
- NACE RP 0394
- NF A 49 706
- ISO 10080
- ISO 9001:2000

PRODUCT APPLICATION PROCESS



PLANTS

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

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.