

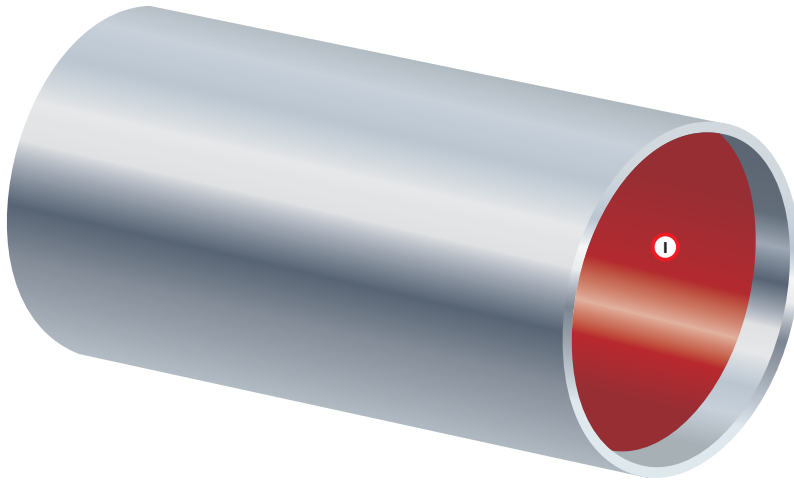
BREDERO SHAW

A SHAWCOR COMPANY

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

SureFlo[®] FEC

Thin Film Internal Epoxy Coating



① Flow Efficiency Coating

PRODUCT DESCRIPTION

SureFlo[®] FEC is a thin film epoxy coating applied in natural gas pipelines to smooth the internal pipe surface for improved flow.

FEATURES AND BENEFITS

Ultra Smooth Finish

The application of SureFlo[®] FEC replaces the internal rough surface of a steel pipe with a smooth surface finish. This results in a reduction in friction and turbulence which increases flow efficiency. This may allow for the use of a smaller diameter pipe or lower compression requirements resulting in reduced capital and operating costs respectively.

Improved Internal Surface Cleanliness

After application of SureFlo[®] FEC, the clean internal surface of the pipe provides corrosion protection prior to installation and allows for easier visual inspection. In addition, the cleaner surface reduces the cost and effort of drying the pipe after hydrostatic testing.

Global Availability

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



Gas pipelines



Large diameter pipelines



Small diameter pipelines



www.brederoshaw.com



SureFlo® FEC



Americas

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TYPICAL PRODUCT PROPERTIES

PROPERTY	SureFlo® FEC
Minimum Internal Pipe Diameter	300 mm (12")
Maximum Internal Pipe Diameter	1320 mm (52")
Minimum Pipe Length	10 m (33')
Maximum Pipe Length	24 m (80')
Minimum Operating Temperature	-40°C (-40°F)
Maximum Operating Temperature	129°C (264°F)

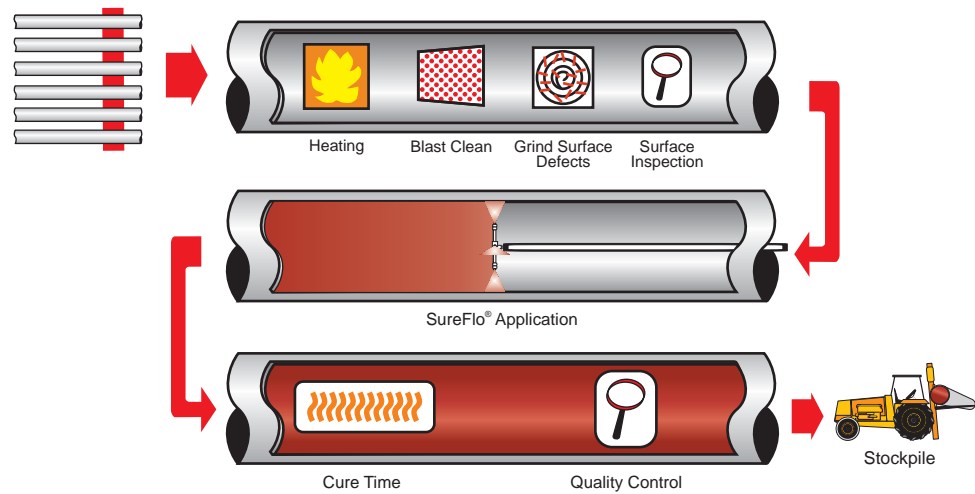
Values shown are typical and may vary from plant to plant. Consult Bredero Shaw for special requirements.

APPROVALS



- API RP5L2
- BGC/PS/CM1
- ISO 9001:2000
- NACE RP 0181
- BGC/PS/CM2

PRODUCT APPLICATION PROCESS



PLANTS

Camrose II, Camrose, Alberta	Leith, Scotland	Kabil, Batam Island, Indonesia
Portland, Oregon	Jubail, Saudi Arabia	Kembla Grange, Australia
Veracruz, Mexico	Ras Al Khaimah, UAE	
Belo Horizonte, Brazil	Kuantan, Malaysia	

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.

www.brederoshaw.com