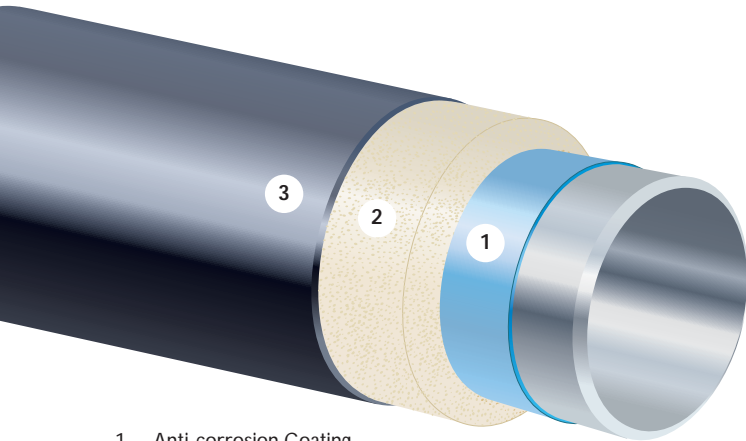




FLOW ASSURANCE

Insul-8[®] HT

Spray Applied Polyurethane Foam Insulation for High Temperature Pipelines



1. Anti-corrosion Coating
2. Thermal Insulation Layer
3. Outer Jacket - Protective Topcoat

Product Description

Insul-8[®] HT System is a sprayed applied polyurethane foam coating developed for external protection of buried or above ground steel pipe. The polyurethane foam provides a cost-effective alternative for maintaining viscosity of hot oil lines, diluent bitumen, and hot bitumen lines to a maximum temperature of 150°C.

Applications



Elevated Operating Temperatures



Small Diameter Pipelines



Large Diameter Pipelines



Oil Sands Pipelines

Related Standards and Specifications

- EN 253
- ISO 9001:2008

For additional standards and specifications with which this product complies, please contact your Bredero Shaw representative. In Canada, consult Shaw Pipe.



Provides a Water Tight Barrier

Prevents Hydrate Formation in Gas Lines

- Insul-8[®] HT polyurethane foam reduces heat loss to prevent hydrate formation in gas pipelines and helps to maintain viscosity in hot oil lines.

Available with a Variety of Anti-Corrosion Undercoat Systems

- Can be used with a variety of anti-corrosion coatings and is available in a variety of insulation thicknesses to meet specific project requirements.

Protection of Water and Sewage Lines from Freezing

- An optional design for further protection against temperature loss is the application of heat tracing channels.

High Operating Temperature Capabilities

- For use where high operating temperatures are attained, and high shear strength bond is required. Insul-8[®] HT is available in a range of maximum operating temperatures.

Global Availability

- High capacity within the Bredero Shaw plant network allows the client to benefit from single source advantages, providing more cost effective management of pipe coating needs.

Insul-8[®] HT

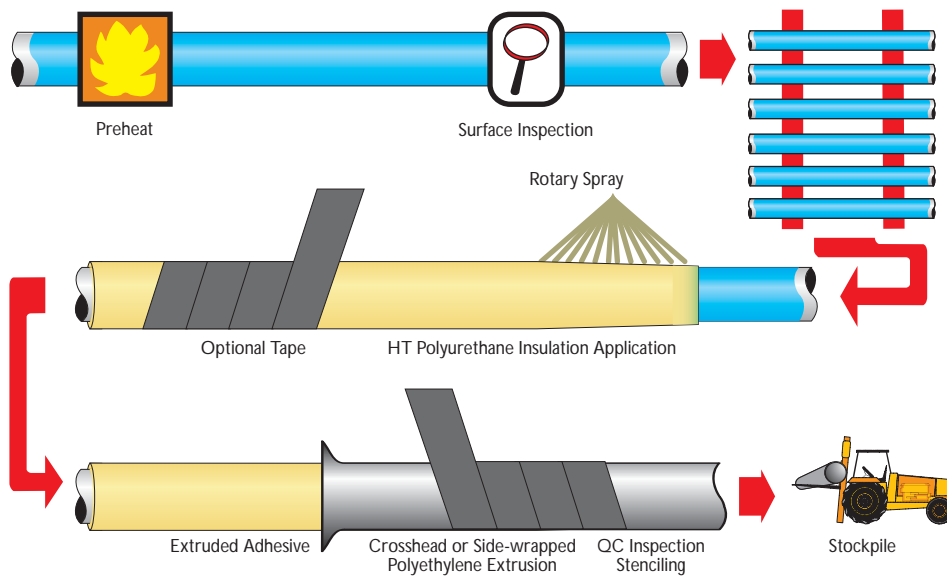
Spray Applied Polyurethane Foam Insulation for High Temperature Pipelines

Typical Plant Capabilities and Product Properties

Capability/Property	Insul-8 [®] HT
Minimum Pipe Diameter	90 mm (3.5")
Maximum Pipe Diameter	609 mm (24")
Minimum Pipe Length	6.1 m (20')
Maximum Pipe Length.....	19.8 m (65')
Minimum Operating Temperature	-40°C (-40°F)
Maximum Operating Temperature.....	150°C (302°F)

Values shown are typical and may vary from plant to plant. Consult Bredero Shaw for special requirements. In Canada, consult Shaw Pipe.

Product Application Process



Insul-8[®] HT_rev021

Plants

North America

Camrose, Alberta

About Bredero Shaw

Bredero Shaw is the global leader in pipe coating solutions. With more than 80 years of experience, the largest team of dedicated pipe coating professionals, the most extensive network of strategically located plants worldwide and with proven innovative coating technologies, the company has protected more pipelines in virtually every environment and operating condition than anyone in the industry.

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.

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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.