

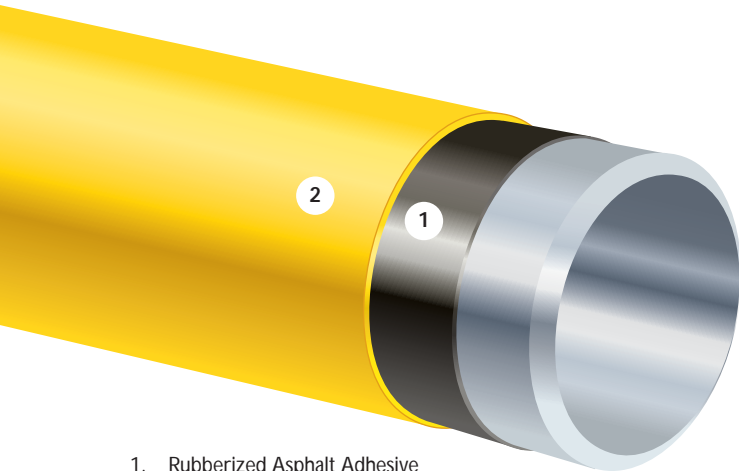
Yellow Jacket®

High Density Two Layer Polyethylene Coating



ANTI-CORROSION

PRODUCT DATA SHEET



1. Rubberized Asphalt Adhesive
2. Polyethylene Topcoat

Product Description

Yellow Jacket® provides external protection for pipe used in the oil and gas and waterworks industries where moderate operating temperatures and good handling capabilities are required. Yellow Jacket® consists of a continuous sheath of high density polyethylene extruded over a rubberized asphalt adhesive.

Applications



Oil & Gas Pipelines



Large Diameter Pipelines



Small Diameter Pipelines



Waterworks Pipelines

Related Standards and Specifications

- CSA Z245.21 (System A1 and A2)
- AS1518:2002
- ISO 9001:2008

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



Corrosion, moisture, and soil resistance

- The dual layer system of extruded polyethylene and rubberized asphalt adhesive provides a long term barrier to corrosion and moisture in various soil conditions.
- Pipeline engineers do not have to ensure that soil chemistry is consistent along the length of the pipeline allowing for the use of some native backfill reducing overall project cost.

Handling and impact resistance

- The tough high density polyethylene outer jacket is formulated to protect pipes up to 20" in diameter from machinery handling in storage yards as well as installation on the right of way.
- The outer layer can be varied in thickness to offer greater mechanical protection in very rugged environments. As a result you can expect reduced manpower requirements during installation, a significant reduction in repair costs and inexpensive backfill can be used.

Low Temperature Flexibility

- Yellow Jacket®'s excellent adhesion to steel pipe allows for field bending in temperatures as low as -40°C while maintaining excellent corrosion resistance properties.
- Engineers have more options when choosing pipeline locations and construction managers are not limited in scheduling installations.

Reliable Coating Technology

- Was first introduced in the pipe coating industry over 50 years ago.
- While undergoing constant improvement in material design and manufacturing methodology, Yellow Jacket® has continued to be one of the leading technologies for pipeline anti-corrosion protection.

* Larger diameters may be available

Features & Benefits

Yellow Jacket®



High Density Two Layer Polyethylene Coating

Typical Plant Capabilities and Product Properties

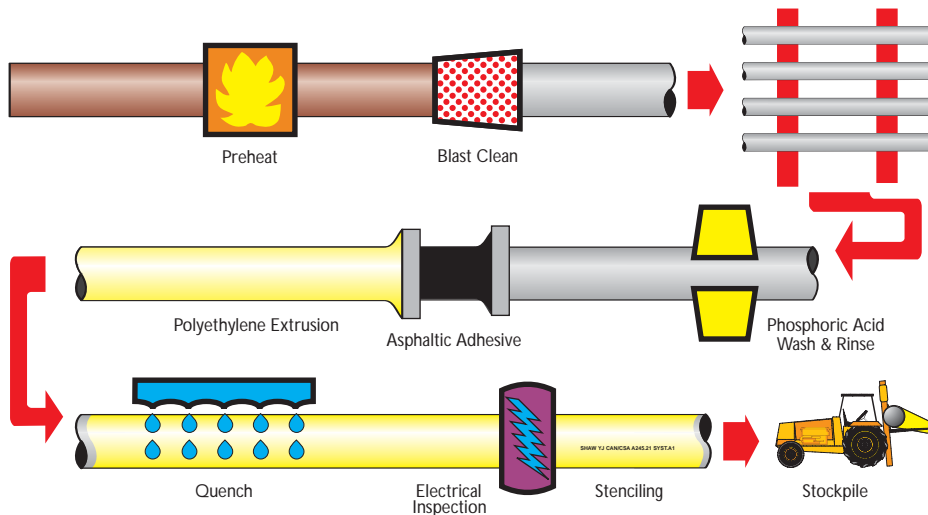
Capability/Property	Yellow Jacket®
Minimum Pipe Diameter	12 mm (0.5")
Maximum Pipe Diameter	508 mm (20")
Minimum Pipe Length	4.9 m (16')
Maximum Pipe Length.....	25.0 m (82')
Minimum Recommended Operating Temperature	-40°C (-40°F)
Maximum Recommended Operating Temperature	60°C (140°F) ¹

Values shown are typical and may vary from plant to plant. Consult Bredero Shaw for special requirements. In Canada, consult Shaw Pipe. ¹Larger Diameters may be available. ¹NPS 2 or less is restricted to 50°C; In Australia AS1518 rates this type of product up to 55°C (131°F) maximum operating temperature.



YI_rev021

Product Application Process



Plants

North America

Edmonton, Alberta
Camrose, Alberta

Asia Pacific

Kembla Grange, Australia

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.

HEAD OFFICE
Bredero Shaw
3838 N. Sam Houston Pkwy E.
Suite 300
Houston, Texas
77032-3400, USA
Phone: +1-281-886-2350
solutions@brederoshaw.com

NORTH AMERICA
Bredero Shaw
Two Executive Place,
200, 1824 Crowchild Trail, N.W.
Calgary, Alberta
T2M 3Y7, Canada
Phone: +1-403-263-2255
northamerica@brederoshaw.com

LATIN AMERICA
Bredero Shaw
3838 N. Sam Houston Pkwy E.
Suite 300
Houston, Texas
77032-3400, USA
Phone: +1-281-886-2350
latinamerica@brederoshaw.com

**EUROPE, MIDDLE EAST,
AFRICA & RUSSIA**
Bredero Shaw
Lakeside House
1 Furzeground Way
Stockley Park, Uxbridge
UB11 1BD
Phone: +44 (0) 208 622 3071
EMAR@brederoshaw.com

ASIA PACIFIC
Bredero Shaw
101 Thomson Road
#17-01/02 United Square
Singapore 307591
Phone: +65-6732-2355
asiapacific@brederoshaw.com

Regional Offices

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.