

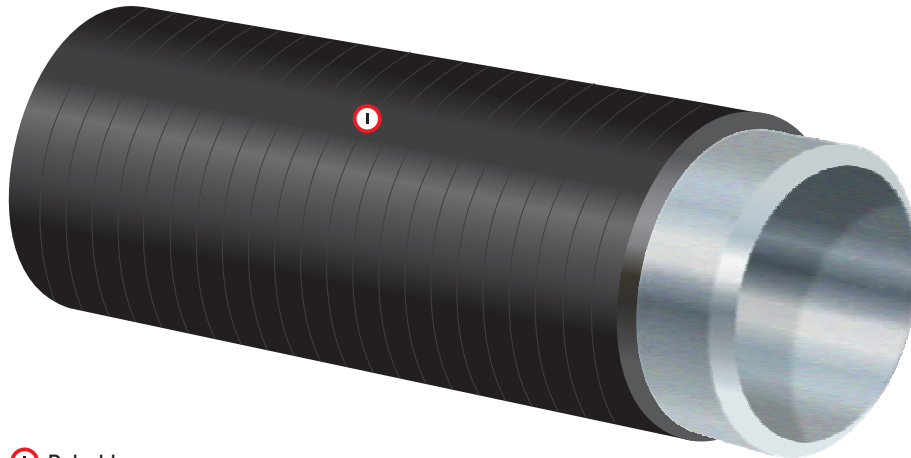
BREDERO SHAW

A SHAWCOR COMPANY

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

Polychloroprene

Neoprene Rubber Coating



① Polychloroprene

PRODUCT DESCRIPTION

Bredero Shaw's polychloroprene system is a unique formulation which has been in use in offshore applications since the 1970's. This anti-corrosion system consists of a multi-layer coating consisting on a primer, bonding agent and an outer layer of polychloroprene. The system can be applied using an extrusion process to straight pipes and by hand building to bends, clamps, guides & supports or fabricated spool pieces such as goosenecks.

Polychloroprene is normally hot-bonded to the steel using a vulcanization process in a steam autoclave. This process both cures the rubber and bonds it to the steel. Polychloroprene provides tough, durable protection for pipelines and risers with excellent resistance to water take-up, hydrocarbons and ozone. Polychloroprene can also be applied as a field joint coating on site being cured using heated electrical tapes.

FEATURES AND BENEFITS

Excellent Corrosion Protection

Bredero Shaw's polychloroprene system provides excellent adhesion to steel thereby giving long term corrosion resistance and impact protection to risers and pipelines operating at 95°C (203°F). The superior adhesion properties of the polychloroprene also results in excellent resistance to cathodic disbondment.

Engineered Solutions

The system can be applied to various pipe diameters up to 52". Bends and fabricated steelwork are restricted to a dimension that can be safely loaded in and out of our autoclaves. The system can be applied in thicknesses from 3 mm (0.1") to 25 mm (1").

Excellent Mechanical Protection

The tough outer layer of polychloroprene protects pipelines and risers during transportation and installation thereby reducing costly repairs while providing added protection against shear forces, impact, chemicals and abrasion.

PRODUCT DATA SHEET



Oil & Gas pipelines



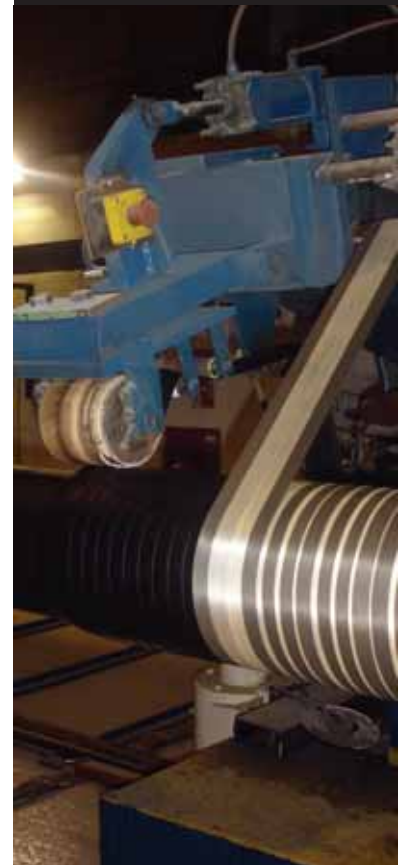
Large diameter pipelines



Small diameter pipelines



High abrasion environments



www.brederoshaw.com



Polychloroprene



Americas

Bredero Shaw
A ShawCor Company
3838 N. Sam Houston Pkwy E.
Suite 300
Houston, Texas
77032-3400, USA
Telephone: +1-281-886-2350
Fax: +1-281-886-2353

Shaw Pipe
A ShawCor Company
Two Executive Place,
1824 Crowchild Trail, N.W.,
Calgary, Alberta
T2M 3Y7, Canada
Telephone: +1-403-263-2255
Fax: +1-403-264-3649

Europe/Africa/Russia

Bredero Shaw
A ShawCor Company
Imperial Dock
Leith, Edinburgh, EH6 7DT
Scotland, UK
Telephone: +44-131-553-9600
Fax: +44-131-553-9699

Bredero Shaw Norway
A ShawCor Company
P.O. Box 214
N-7301 Orkanger
Norway
Telephone: +47-72-46-60-60
Fax: +47-72-46-60-70

Middle East

Bredero Shaw
A ShawCor Company
P.O. Box 1789,
Suite 402, Al Reem Plaza
Buhairah Corniche, Sharjah, U.A.E
Telephone: +971-6-573-7374
Fax: +971-6-573-7379

Asia Pacific

Bredero Shaw
A ShawCor Company
101 Thomson Road
#17-01/02 United Square
Singapore 307591
Telephone: +65-6732-2355
Fax: +65-6732-9073

TYPICAL PRODUCT PROPERTIES

PROPERTY	Polychloroprene
Minimum Pipe Diameter	90 mm (3.5")
Maximum Pipe Diameter	1220 mm + (48" +)
Minimum Pipe Length	2 m (6.5')
Maximum Pipe Length	17 m (56')
Minimum Recommended Operating Temperature	-40°C (-40°F)
Maximum Recommended Operating Temperature	95°C (203°F)
Hardness	65 ± 5 (IRHD) for BS 903 Pt A26
Density	1340 ± 30 (kg/m ³)
Tensile Strength	15 (min) (N/mm ²) for BS 903 Pt A2
Elongation at Break	350 (min) (%) for BS 903 Pt A2
Abrasion Resistance	200 (max) (mm ³) for DIN 53516
Vol Swell (Seawater)	2% for BS 903 Pt A16 (21 days @ 70°C)
Volume Resistivity	10 ⁸ ohm cm for BS 903 Pt C2
K-Value	0.29 W/m/K ASTM C518

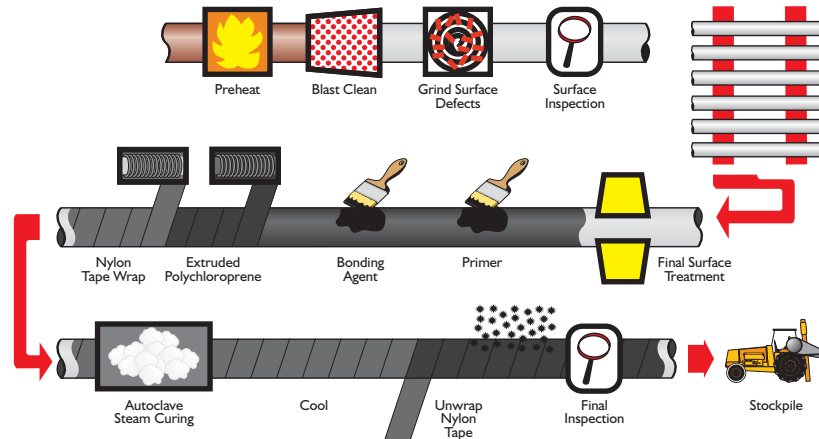
Values shown are typical and may vary from plant to plant. Consult Bredero Shaw for special requirements.



APPROVALS

- ISO 9001:2000

PRODUCT APPLICATION PROCESS



PLANTS

Ellon, Scotland: Castlepark Industrial Estate, Ellon, Aberdeenshire AB41 9RF
Phone: +44-1358-723-435 | Fax: +44-1358-723-371

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