Shawcor’s HDPE pressure pipe and liners lower total installation and life cycle costs

EXTENDING THE OPERATIONAL LIFE OF YOUR STEEL PIPELINE THROUGH SUPERIOR CHEMICAL, CORROSION AND EROSION RESISTANT LINERS.

Improve the performance of your pipeline with Shawcor’s wide variety of high density polyethylene (HDPE) pressure pipe and HDPE liners that can easily be customized from wall thickness to colour to resin. Our products offer significant technical and economic advantages, including ease of installation, reliability, flow assurance and lower total cost.

Shawcor’s HDPE pressure pipe and pipeline liners are not only flexible and fatigue resistant but are also lightweight.

Material characteristics like improved resistance to permeability and better resistance to chemicals, including hydrocarbons, even under elevated temperatures allow you to forgo costly chemical inhibition and maintenance associated with internal corrosion.

ASSOCIATIONS AND CERTIFICATION STANDARDS
- CSA
- NSF
- PPI
- AWWA
- ASTM
- API
- ASME

3/4” to 24” IPS PIPE SIZES
120°C (248°F)* FOR TUBING LINERS
95°C (203°F)* FOR PIPELINE LINERS
MAXIMUM OPERATING TEMPERATURES

* Requires review by Shawcor Applications Engineer

APPLICATIONS:
- Industrial – mining applications, slurry and tailings lines
- Oilfield – oil and gas gathering systems, coalbed methane recovery
- Pipe liner systems – technology for steel pipe corrosion protection
- Natural gas – distribution piping
- Water services – municipal water service tubing, copper tube size
- Municipal - potable water and sewage
- Irrigation – farming and commercial applications
- Conduit - cable, fiber optics and pipe-in-pipe plowing, chain ditching, surface lines, horizontal directional drilling (HDD) and liner pulls (remediation)
HDPE PRESSURE PIPE
PE4710 PLUS/PE100 dual grade resin is the highest pipe grade HDPE resin available with enhanced properties over the traditional PE3408/PE3608 resins. Shawcor offers PE4710 PLUS/PE100 in all sizes and SDRs for use in all applications.

The increased properties of PE4710 PLUS/PE100 allow for higher pressure ratings without compromising the long term properties of the pipe. In accordance with the Plastics Pipe Institute (PPI), PE4710 PLUS/PE100 qualifies for a design factor of 0.63 for water service, which is higher than the design factor of 0.50 for PE3408/3608.

PE4710 PLUS/PE100 is certified to CSA, NSF, AWWA, ASTM and NSFC for municipal applications.

PE2708 PLUS AND PE4710 PLUS
Gas pipe manufactured with our PE2708 PLUS or PE4710 PLUS material uses a bi-modal polyethylene resin that offers improved resistance to rapid crack propagation (RCP) as well as exceptional slow crack growth (SCG) (PENT performance). With these enhanced properties, CSA allows you to operate distribution systems at higher pressures over the conventional uni-modal 2708 material.

HDPE PIPELINE LINERS
Protect your steel pipelines from internal corrosion and chemical attack with our HDPE lined pipe system. The smooth wall liner provides high flow capacity with reduced friction and pressure loss. Suitable for temperatures up to 60°C (140°F)*.

PPI designation: PE4710/PE100

SHAWPRO LINED TUBING
Shawcor also manufactures and supplies ShawPRO lined tubing. Composite Production Systems’ high quality ShawPRO liners, supplied by Shawcor Oilfield Asset Management, are used to line tubing to eliminate rod on tubing wear, corrosion and abrasion along the ID of the tubing. Available for 2 ⅜” to 4 ½” tubing sizes.

The HDPE liner is designed to eliminate rod on tubing wear and corrosion along the ID of the tubing. Comprised of a primary resin (HDPE) as well as a proprietary blend of resins, ShawPRO is designed to handle common well environments including those with H₂S and CO₂. The thermoplastic liner is mechanically fitted to the ID of the tube allowing the liner to be installed inside of both new and used tubing. It will not flake, crack, chip or disbond so your tubing string will remain internally protected from top to bottom.

ShawPRO - maximum working temperature 60°C (140°F)*
ShawPRO - maximum working temperature 120°C (248°F)*

* Requires review by Shawcor Applications Engineer

Shawcor Ltd. is a global energy services company specializing in products and services for the pipeline and pipe services segment of the oil and gas industry and related products for petrochemical and industrial markets. The Company operates through a network of fixed and mobile manufacturing and service facilities located around the world and is valued for its integrity, technology, and proven capability to execute the most complex projects in our industry.