PROTECTIVE LININGS

Corrosion from Seawater in Pipes and Equipment

Polycorp Protective Linings are used to protect rail and truck tanks, storage vessels, process equipment, and pipes from corrosive and abrasive materials. Our customers benefit from our extensive product catalogue, superior technical support, and decades of experience in the rubber lining industry.

THE CHALLENGE

Desalination plants and other industrial operations located in coastal areas may use seawater in their processes. The salt content in the water causes both corrosion and abrasion in piping, tanks and process equipment.

Protecting these valuable assets from the effects of exposure to seawater is a critical challenge for corrosion engineers in these regions. Effective barriers can extend the life of steel pipes and equipment, avoiding expensive repairs or replacement.

THE SOLUTION

Polycorp engineers and chemists have developed a range of neoprene (chloroprene) rubber linings that can be used to line process piping and equipment. These products offer excellent protection against the corrosive and abrasive properties of seawater. In addition, they are very resistant to weathering, ozone and water permeation, and can withstand rapid temperature changes.

Neoprene based rubber linings have similar mechanical properties as natural rubber. They offer excellent protection against corrosion and abrasion as well as being resistant to weathering, ozone and rapid temperature changes.

Neoprene rubber also offers resistance to marine growth in piping systems. The soft, flexible lining surface will ripple as water flows past, not allowing barnacles a stable and consistent attachment point.

Polycorp Neoprene Linings

- **2010** is a black, 60A durometer general purpose neoprene with good abrasion, weathering, and machining properties. It is flame retardant and provides good corrosion resistance.
- **2034** is a white, 50A durometer general purpose neoprene. FDA compliant.
- **5621** is a black, 55A durometer lead cure neoprene with good abrasion resistance. This material has very low water absorption rates and good machining properties.
- **5821** is a black, 55A durometer lead cure neoprene with superior abrasion, weathering, flame, and corrosion resistance. Used where low permeation rates are critical. For molding and pressure cure applications only.
- **T5009** is a black, 60A durometer general purpose neoprene. Normally used where surface finish requirements are less stringent.

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