

# Corrosion Protection

Hall Longmore is an industry leader in the technology and application of protective coatings and linings to steel pipes. Applications are tailored to suit specialist corrosion engineers and international standards.

## External Protective Coatings

- Fusion Bonded Epoxy Coating
- Fusion Bonded Medium Density Polyethylene Coating (FBMDPE)
- 3-Layer High Density Coatings (3-LPE & 3-LPP)
- Liquid Epoxy Coating
- 2-Layer Visco-Elastic Tape Wrap
- Polymer Modified Bitumen Bitugard® Coating
- Rigid Polyurethane
- Various wet paint/epoxy applications

## Internal Protective Linings

- Liquid Epoxy Lining
- Cement Mortar / Concrete Lining



# Coatings



## 3-layer Coating for Steel Pipe

The Hall Longmore facility is fully equipped with the latest “sleeve-type” and “side head extrusion” 3-layer coating process.

- Sleeve-type extrusion designed for pipe diameters from 219 mm to 610 mm
- Side extrusion designed for pipe diameters up to 719 mm

3-Layer Coating is the generic term for a pipe outer coating comprising of FBE base or primer coat, an extruded co-polymer adhesive intermediate layer and an extruded polyethylene top coat, as described by System B1 of the Canadian Specification Z245.21-02.

Fully equipped, modern on-site laboratories conduct tests on all 3-layer coatings in accordance with CSA Z245.20/21-02. These tests include: Cathodic Disbondment; Peel Adhesion; Elongation; Impact; Dust and Debris and EID (Holiday testing).

## The high performance features of 3-layer coating include:

- High impact resistance
- High corrosion resistance with cathodic protection
- Excellent resistance to soil stresses

- Highly impermeable to water penetration
- Superior adhesion to steel
- Good flexibility
- Excellent insulation properties with long term resistance to stray current
- Can be customised to specific operating conditions by varying the thickness of the coating in line with specifications.

