

3LPE

3-Layer Polyethylene Coating

3-Layer Polyethylene (3LPE) is a multilayer coating composed of three functional components: A high performance Fusion Bonded Epoxy (FBE) primer, followed by a copolymer adhesive and an outer layer of polyethylene which provides tough, durable protection. 3LPE systems provide excellent pipeline protection for small and large diameter pipelines operating at up to moderately high temperatures.

Long Term Corrosion Protection

- The FBE component provides excellent adhesion to steel, providing superior long-term corrosion resistance and protection of pipelines operating at moderate temperatures.
- If required, Low Application Temperature(LAT) FBE can be selected as the primer to ensure low preheating conditions and long term integrity of high strength steels (X80 or higher)
- In addition, 3LPE systems offer excellent resistance to cathodic disbondment, reducing lifecycle costs of cathodic protection

Engineered Solutions

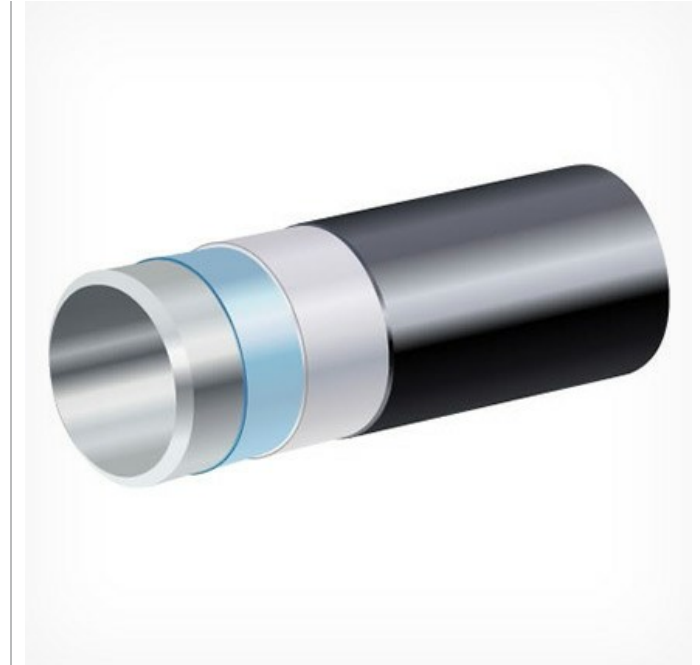
- Advanced Manufacturing techniques allow for a customized 3LPE system to your specific project.

Very Good Mechanical Protection

- The tough outer PE layer protects pipelines during transportation and installation thereby reducing costly repairs while also providing added in-ground protection against shear forces, chemicals and abrasive soil conditions
- By increasing the thickness of the PE outer layer, the 3LPE system can provide a high level of mechanical protection across a variety of difficult environments without requiring the use of costly backfill

Global Availability

- Can be manufactured at a single plant or in multiple coating plants to improve project logistics
- Through Shawcor's global footprint of high capacity plants clients benefit from single point of contact project management, even in the most demanding logistical configurations



CAPABILITY/PROPERTY	3LPE
Minimum pipe diameter	51 mm (2")

CAPABILITY/PROPERTY	3LPE
Maximum pipe diameter	1220 mm + (48")+
Minimum recommended handling and construction temperature	-40°C
Maximum recommended operating temperature	85°C
Bendability	yes

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