

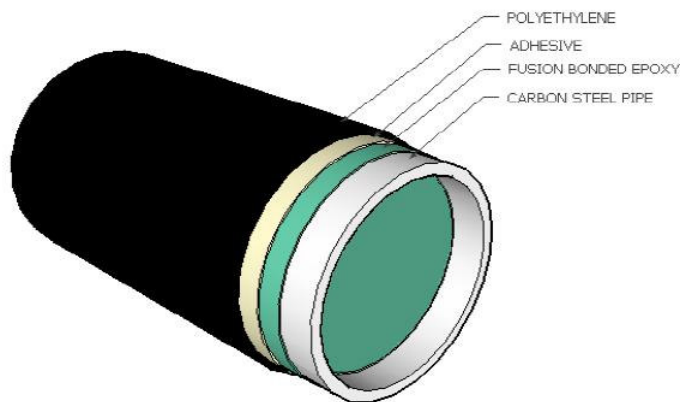


# SCAN INDIA



ISO 9001:2008 CERTIFIED ORGANIZATION

## “SMOOTHFLOW<sup>®</sup>” 3 Layer Polyethylene Coating and FBE Lining



### PRODUCT DESCRIPTION:

Scan India manufactures 3 Layer polyethylene externally coated and fusion bonded epoxy internally lined steel pipes in diameter ranges from 400 mm to 2000 mm. This coating provides excellent corrosion resistance, chemical resistance, electrical resistance, and has very low moisture permeability. Internal lining of potable water contact approved FBE provides low frictional resistance to flow. Ideally suited for potable water and oil and gas applications. The three coating layers in 3-LPE coated pipe are as follows:

**Layer 1:** This is the corrosion protective layer. This layer is of fusion bonded epoxy which offers very good corrosion protection. The fusion bonded epoxy has a very good bonding with the blasted steel surface.

**Layer 2:** This layer is the copolymer adhesive. The copolymer adhesive is a maleic anhydride grafted polyethylene compound. This material has good chemical bonding to the fusion bonded epoxy and the top layer polyethylene

**Layer 3:** This layer is for physical protection and consists of polyethylene. Since the copolymer adhesive and polyethylene are similar, they bond well with each other.

### STANDARDS AND SPECIFICATIONS:

“SMOOTHFLOW<sup>®</sup>” 3LPE coated and fusion bonded epoxy internally lined pipes are manufactured according the following standards:

- CSA Z245.21 system B2
- DIN 30670
- IS 3589

### FEATURES OF “SMOOTHFLOW<sup>®</sup>” PIPES:

#### Corrosion Resistance :

- 3LPE Coating prevents steel pipe from corrosion.
- Because of smooth internal 3LPE lining, encrustation is avoided.
- Excellent chemical resistance properties.
- Internal coating of fusion bonded epoxy helps in corrosion protection and provides a smooth surface thereby increasing “C” value.

#### Long Working Life :

- Pipe has constant performance characteristics throughout the life span. Service life of more than 75 years.

#### Low Frictional Coefficient :

- Hazen Williams coefficient or ‘C’ value is 150 which stay constant throughout the life of the pipe.
- Less frictional losses because of high ‘C’ value compared to other pipe linings.

#### Customized Solutions :

- “SMOOTHFLOW<sup>®</sup>” 3LPE external coating and fusion bonded epoxy internal lining can be applied from diameters 400 mm to 2500 mm with lengths of up to 12m.
- Bends (Elbows), Tees, reducers, couplers can be coated with same coating.
- Internal FBE available in green, blue, red and yellow colors.

#### Benefits:

- Coating life expectancy of above 75 years.
- High productivity rate enabling quicker availability of coated pipe on site.
- Protection over a wide temperature range
- High adhesion to steel.
- High resistance to cathodic disbondment.
- High Gloss and smooth coatings gives pleasant appearance.
- Provides enhanced corrosion resistant properties.
- Excellent chemical resistance.
- Excellent electrical insulation
- Low water absorption
- Pinhole free homogeneous coating.
- 100% Solvent free- environmentally friendly and no risk of solvent entrapment.

## APPLICATIONS:

“SMOOTHFLOW®” 3 layer polyethylene coated and fusion bonded epoxy lined pipes are used for buried or submerged pipelines. These coated and lined steel pipes have excellent long term corrosion resistance & very good resistance to cathodic disbondment.

“SMOOTHFLOW®” 3 layer polyethylene coated and fusion bonded epoxy lined pipes are used in the following applications where the pipes are either buried or submerged:

- Drinking water pipelines.
- Oil and gas pipelines
- Sewage and waste water applications
- In plant process water applications

## ABOUT SCAN INDIA:

Scan India is a pioneer in corrosion protective coatings on carbon steel pipes. In 2006, Scan India started production of “SMOOTHFLOW®” pipes. These are carbon steel pipes coated externally and internally with 3 layer polyethylene (3LPE) coating intended for buried or submerged application. Scan India is the first and till date only company to adapt 3 layer polyethylene coating technology for internal pipe coating. Scan India produces various other types of anti corrosion coatings and flow assurance coatings like FBE, Dual layer FBE, Internal FBE and internal 3LPE. Scan India is an ISO 9001:2008 certified organization.

## MANUFACTURING CAPABILITIES:

- Diameter range 400mm to 2500 mm
- Pipe length 6 m to 12 m
- Operating temperature range -40° C to 80° C
- Coating thickness
  - Internal lining: Maximum up to 400 microns
  - External coating: Maximum up to 3.7 mm



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