

# MATRIX ROTOLINING

## STRESS FREE AND SEAMLESS

Matrix rotational lining (rotolining) is used to apply seamless, unbonded or fully bonded liners to pipes, process equipment, tanks, pump and valve housings.

The process involves rotating the part to be lined on two axes in a large, temperature controlled oven. This evenly distributes a layer of molten polymer to all internal surfaces of the part at a controlled thickness up to 25 mm.

### BENEFITS

As Matrix Rotolining solutions are seamless, they are free of stresses and conform to highly complex shapes, eliminating the need for internal access to the part. Further benefits of rotolining include:

- Reduced failure points due to seamless nature of the liner
- Exceptional corrosion resistance to acids and bases
- Reduced risk of delamination as the liner is fully-bonded to the substrate
- Lined part can operate in a range of temperatures depending on the type of liner material:
  - Linear Low Density Polyethylene (LLDPE): 70°C
  - High-density Polyethylene (HDPE): 85°C
  - Polyvinylidene Fluoride (PVDF): 135°C
  - Ethylene Tetrafluoroethylene (ETFE): 150°C
- Adhesive free due to mechanical and/or chemical bonding (depending on material choice)
- Longer service life (Fluoropolymer or Olefin lining)

### APPLICATIONS

The resultant lining material is corrosion and abrasion resistant which makes it suitable for chemical, water and slurry applications.

- Compatible with a range of fittings: ANSI flange, victaulic, and sanitary flange fittings
- Strong chemical and abrasion resistance
- Low Coefficient of Friction (CoF)
- Low wear
- Capable of lining pipe spools and fittings up to 4.5 m length
- Capable of lining large-diameter vessels up to 4 m.



**LLDPE ROTOLINED FITTINGS FOR CHEMICAL PROCESSING PLANTS**