

Ductile Iron Pipes with Polyurethane lining

Hamoun Nyzeh Company is capable of producing ductile iron pipes with polyurethane lining in accordance with EN 15655-1 standard. The polyurethane lining is considered as an ideal choice for ductile iron pipes because of having high corrosion and abrasion resistance, adheres well to the surface and by maintaining its flexibility, positively affects on performance of the system. Compared to cement lining, the polyurethane lining has less weight, which leads to decreasing transportation and installation costs, on the other hand drying time for this lining is faster than cement thus it has better chemical resistance, due to its high impact resistance. polyurethane lining is also resistant to cracking or breaking during transportation and impact.



Some of the significant advantages of polyurethane lining are as follows:

- :: Suitable for drinking water and sewage applications.
- :: Decreasing operational costs of water and sewage transmission system followed by minimal pressure drop and no reduction in pump energy efficiency and performance.
- :: Suitable for various acidic and alkaline environments with pH ranging from 2 to 14.



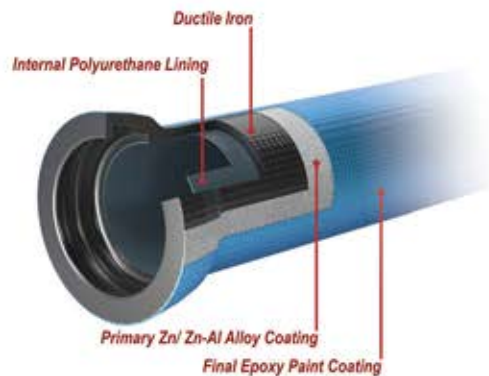
Advantages



- :: Provides a much smoother surface compared to cement coating and creating a larger internal cross-sectional area.
- :: Ideal for water and waste water pipes with minimum slope.
- :: No chemical reaction with chlorine or any other disinfectants and highly corrosive industrial liquids used for transfer.
- :: No breakage or chipping during pipe drilling or cutting.

PU Lining - Energy Efficient and Mechanically Robust

The Polyurethane lining meets the requirements of the German Environmental Protection Agency's "Guideline for Hygienic Assessment of Organic Coatings in Contact with Drinking Water" as well as the requirements of DVGW Worksheet W 270.



Minimum thickness of polyurethane lining for ductile iron pipes for water transfer in accordance with EN 545 standard.

DN	Minimum lining thickness (µm)
80 -1200	800

Minimum thickness of polyurethane lining for ductile iron pipes for sewage transfer in accordance with EN 598 standard.

DN	Minimum lining thickness (µm)
80 -700	800
800 -1200	1000

