

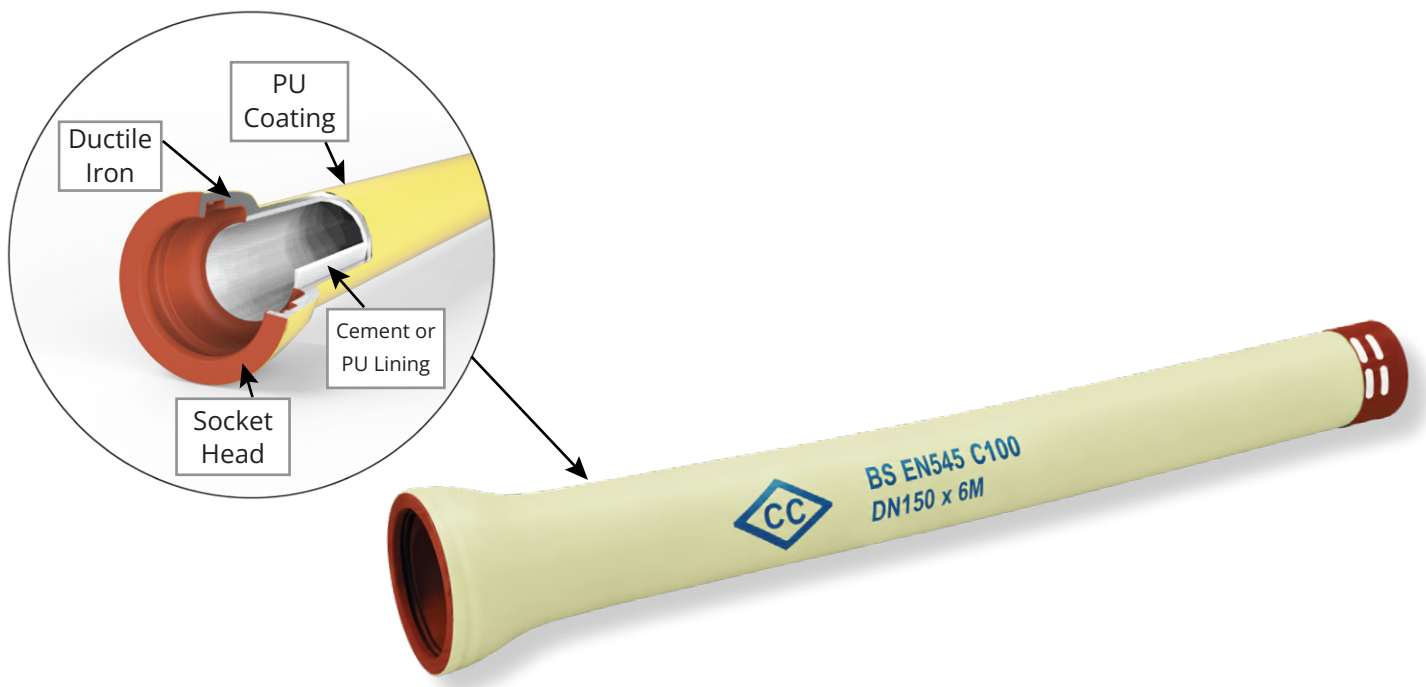
POLYURETHANE COATING & LINING DUCTILE IRON PIPE

BS EN 545:2010 BS EN 15189:2006 BS EN 15655-1:2018 SS 375:2015



Updated on: 2025.04.02

Polyurethane (PU) Coating & Lining on Ductile Iron Pipe



Technical Specification

Standard Compliance: BS EN 545:2010; BS EN 15189:2006; BS EN 15655-1:2018; SS 375:2015

Size Range: DN100~DN1000

Effective Length: 6m

External Coating available: Polyurethane (PU) min. thickness 700µm

Internal Coating available: Ordinary Portland Cement (OPC); Polyurethane (PU) min. thickness 800µm

Application of polyurethane coating on ductile iron pipe:

Pipelines buried underground will be exposed to a variety of stresses, including backfills and corrosive soils. The standard zinc coating with finishing layer on the basic version of our ductile iron pipes provides a high level of resistance to corrosion in most standard application. Nevertheless, soil aggressivity must be assessed to determine whether additional or better protection, such as a polyethylene (PE) sleeve as a supplement or other types of external coatings. To ensure the longevity of underground ductile iron pipes in very strong aggressivity soil with a pH below 6 and a high reserve of acidity as according to BS EN 545:2010, Annex D2.1, polyurethane coated ductile iron pipes are used.

Application of polyurethane lining on ductile iron pipe:

Polyurethane lined pipe is used to withstand aggressive conditions, industrial effluent applications where cement mortar lining is not suitable. It can be used to transport all types of water and domestic effluents and most types of industrial effluents, provided that they are not exposed to values below pH 1 or greater than pH 13 according to BS EN 15655-1:2018, Annex B.3. The excellent surface smoothness allows for a laminar flow of fluid, reducing turbulence and drag, thus resulting in lower frictional loss.

Polyurethane coating and lining characteristics:

Polyurethane coating has strong mechanical strength, rock impact resistance and soil stress resistance. It can hardly be damaged during handling and installation. The coating has a minimum thickness of 700 microns according to BS EN 15189:2006. The lining has a minimum thickness of 800 microns according to BS EN 15655-1:2018. The polyurethane lining is compatible with drinking water and conform to SS 375:2015.

Our Custom Services



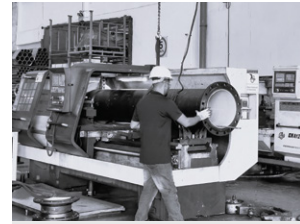
Welding



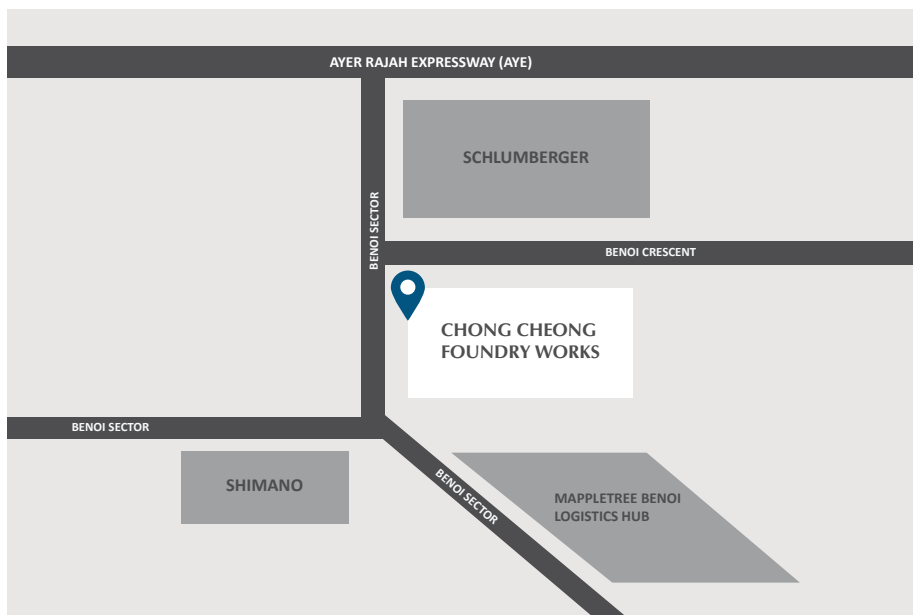
Sawing Machine



CNC Milling Machine



Pipe Threading



Contact Us

Please feel free to contact us via e-mail or phone. We will be glad to answer your questions, concerns and/or feedback.

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Operating Hour:

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Sun & PH: Closed

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