

ArmorPIPE™ 6500 Series

Lightweight, Economical, Repairable and Solution for Slurry Transportation.

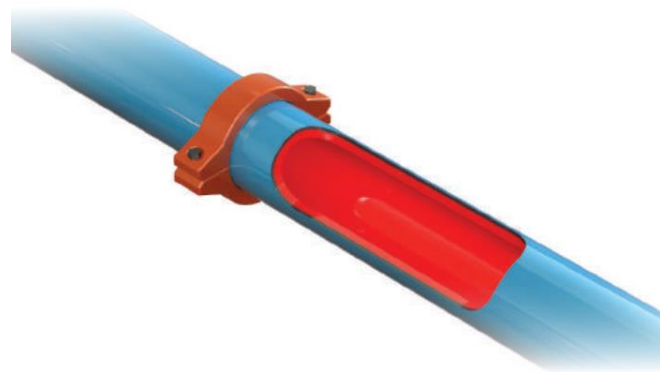
The ArmorPIPE™ 6500 series pipe system incorporates a metallic casing protected internally with a proprietary polymer composite lining. This unique material is heavily reinforced with a broad size spectrum of high grade engineered ceramic particles, ideal for abrasive environments where traditional pipe materials and linings fail to offer adequate long-term protection.

This lightweight lining is typically just 3 to 6mm making it an economical solution for backfill mine levels pipe applications and general slurry transportation. The relatively thin lining makes it ideal for smaller diameter pipe where thicker linings can create.

Coupling Systems

Traditional pipe connections systems can be accommodated including threaded, weldable, flanged and Victaulic style couplings. Casing sizes are selected to ensure the finished internal diameter matches your pipe's existing hydraulic diameter.

ArmorPIPE™ linings are easily repairable at end of life, producing quicker turnaround times, allowing the casing to be recycled and ultimately providing a dramatic reduction in the long-term costs. Pay for fabrication once and simply maintain the lining for the life of the system.



Benefits

- Lightweight system
- Monolithic lining – no joints or seams
- High tensile adhesion between lining and substrate removes the risk of delamination, undercutting or under-film corrosion
- Energy absorbing matrix resists thermal-mechanical shock, reduces brittleness, and ensures reliable bonding
- Solvent free polymer matrix prevents pinholes
- Easily repairable lining reduces long term costs.

Applications

ArmorPIPE™ 6500 Series can be utilised in a variety of pipe applications:

- Lateral backfill pipe work
- Process slurry transport pipes
- Imatech ArmorBEND™ elbows and fittings
- Process slurry and tailings transport pipes
- Long overland transportation systems
- Small diameter pipework



Design Features

ArmorPIPE™ components are designed to accommodate the following service requirements and conditions:

Ease of installation	Hydraulic Design
Handling/weight limitations	External size constraints
Environmental concerns	Required System Life
System Design Pressure	Budget constraints

Chemical Resistance

The ArmorPIPE™ 6500 Series is suitable for full immersion service in a range of acids, alkalis and hydrocarbons including (tested at 21°C [70°F]):

10% Hydrochloric	6% Sodium Hypochlorite
5% Nitric	Bunker C
5% Phosphoric	Diesel Fuel
10% Sulphuric Acid	Isopropyl Alcohol
28% Ammonium Hydroxide	Kerosene
50% Potassium Hydroxide	Naphtha
50% Sodium Hydroxide	Salt Water & Sewage

