

Zinc Tape

Zinc Tape For Steel Structures

Description

Zinc tape is used to provide galvanic corrosion protection to new and existing steel structures such as bridge supports, light posts, pipeline, marine structure, transport vehicles, and industrial tanks. Zinc tape is designed to cover the surface of iron, steel, aluminum, and light metals in order to protect them from corrosion. The product consists of high purity zinc can act as a galvanic anode. Zinc tape can be supplied in custom shapes and can be factory top-coated for improved protection and aesthetic.

Applications

- Bridges
- Masonry supports
- Light Posts
- Marine structures
- Pipelines
- Industrial tanks and pipelines
- Hinges and bolted connections
- Automotive and transport vehicles

**As with all galvanic protection systems, service life and performance is dependent upon a number of factors including reinforcing steel density, concrete conductivity, chloride concentration, temperature, humidity, and anode spacing.*

Features and Benefits

- **Dual Protection** - Zinc tape provides both barrier protection to the steel surface. The zinc layer provides a barrier to oxygen, water, and chemicals. If electrolyte penetrates the tape, the zinc will act as a galvanic anode to protect the steel.
- **Custom sizing** - Zinc tape is available on rolls or in custom shapes to meet customer needs.
- **Long service life** - Zinc layer provides long term protection to metallic surfaces that in many cases is equal to or longer than the expected lifetime of the structure.
- **Economical** - significant reduction in coating maintenance over the life of the structure.
- **Easy application** - The product is hand or mechanically applied with minimal surface protection required. Conforms to irregularities in the metal surfaces such as welds and corrossions pits.
- **Environmentally friendly** - reduction in debris released to the environment through elimination of abrasive blasting and spray coating.
- **Low maintenance** - once applied, zinc tape requires minimal maintenance over the long term.
- **Versatile** - can be used to cover and protect the surface of iron, steel, aluminum, and light alloys.



Condition of tanks before zinc tape application



Condition of tanks after zinc tape application

Specification Clause

The zinc tape shall be zinc tape supplied by Tape-Rite. It will be a zinc tape of high purity (min. 99.99% zinc) with a nominal thickness of 0.080mm (3 mils). The tape shall be supplied with an electro-conductive pressure sensitive adhesive of a nominal thickness of 0.025mm (1 mil) capable of resisting a continuous operating temperature of 120°C (248°F). The adhesive layer shall be covered by a silicone paper tape which protects the adhesive from damage or contamination until the tape is applied.