



InfraBuild

Building futures through sustainable steel

LifeMax[®] Wire Coating

Product Information



What is LifeMax®?

LifeMax® is a protective coating specifically designed to enhance the working life of steel wire products. The coating comprises an aluminium and zinc alloy.

The LifeMax® process forms two different layers that provide both passive and galvanic protection to the steel wire in the one coating.

The LifeMax® inner layer forms an aluminium rich iron-aluminium zinc intermetallic that acts as a passive barrier.

The LifeMax® outer layer of zinc and aluminium alloy is finer and more homogeneous than plain zinc. This outer layer provides galvanic protection offering sacrificial protection to the steel wire.

Good Welding Performance

The superior corrosion performance of LifeMax® applies to welded meshes as well as other wire products. At InfraBuild's severe marine corrosion site at Belmont Beach, samples of hot dip galvanised and LifeMax® welded meshes were monitored over a period of time. The time taken for LifeMax® samples to show rust on 40-70% of the surface was up to 3 times longer than for galvanised coatings with an equivalent coating mass.

More Ductile Coating

In addition to its superior corrosive properties the thin LifeMax® alloy is more ductile and adherent than the hard, brittle alloy of zinc galvanised coating.

This means that it is less likely to crack under deformation and allow corrosive elements to attack the steel wire.

LifeMax® wires are therefore better suited for wires that are woven, deformed or twisted into shape.

Applications

LifeMax® wires are suited for a wide range of applications, including security mesh, chain link, wire netting, nails and staples. LifeMax® complies with the requirements of AS 1725:2010 Parts 1 to 5 and is suitable for use in all chain-link security fences.

Up to 3 times the life of Zinc Galvanised Coating

(As stated in AS/NZS 4534)

Why InfraBuild?

	Delivered by	Via
Galvanic protection (via Zn/Al outer layer)	Coating mass control	InfraBuild patented advanced galvanising process
Barrier protection (via FeAlZn internal layer)	<ul style="list-style-type: none"> Better alloy integrity (encases the wire fully) Significantly thicker barrier layer Enriched in corrosion resistant aluminium 	<ul style="list-style-type: none"> Unique processing which minimises scraping of the barrier layer in production Double-dip coating process
Better corrosion performance	Coating mass control, alloy integrity and thickness	InfraBuild advanced galvanising process

For Further Information Contact 1800 132 160



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