



# InfraBuild

*Building futures through sustainable steel*

# LifeMax<sup>®</sup> Plus Wire Coating

Product Information



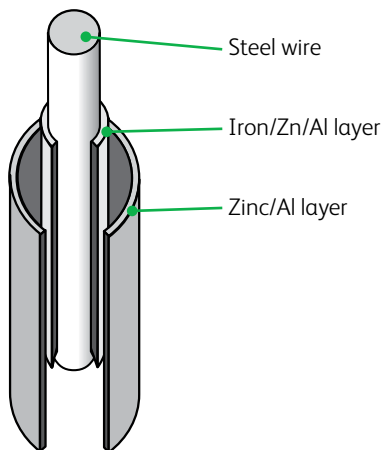
## What is LifeMax® Plus?

LifeMax Plus 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 resulting in a product that delivers up to three times the life of a zinc galvanised coating of a similar coating mass (as stated in AS/NZS 4534\*).

InfraBuild Wire offers LifeMax on a range of wire products however, if you are looking for that next level of superior protection LifeMax Plus provides all the benefit of LifeMax but with a significantly heavier coating mass to that of regular LifeMax. So LifeMax Plus is the coating of choice if you're looking for that added level of extended corrosion protection.



## 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.

## Coating Ductility

In addition to its superior corrosive properties the 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 coated wires are therefore better suited than plain zinc for applications where wires are woven, deformed or twisted into shape.

## Applications

LifeMax Plus wires are suited for a wide range of applications, including high security mesh fencing, chain link fencing, staples and various other products.

**Up to 3 times the life of zinc galvanised coating of similar coating mass**

(As stated in AS/NZS 4534)

*\*Refer to AS/NZS 4534 or request an InfraBuild Material Information Sheet for details of coating mass requirements by diameter.*

## 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"> <li>Better alloy integrity (encases the wire fully)</li> <li>Significantly thicker barrier layer</li> <li>Enriched in corrosion resistant aluminium</li> </ul>	<ul style="list-style-type: none"> <li>Unique processing which minimises disturbance of the barrier layer in production</li> <li>Double-dip coating process</li> </ul>
Better corrosion performance	Coating mass control, alloy integrity and thickness	InfraBuild advanced galvanising process

For further information call **1800 132 160** or email [wire@infrabuild.com](mailto:wire@infrabuild.com)