SILOS SPAIN

PRESENTATION I **PROMAG COATING**



www.silosspain.com

ProMag Coating

Silos Spain has introduced an innovative metallic coating that offers protection in the harshest environments.

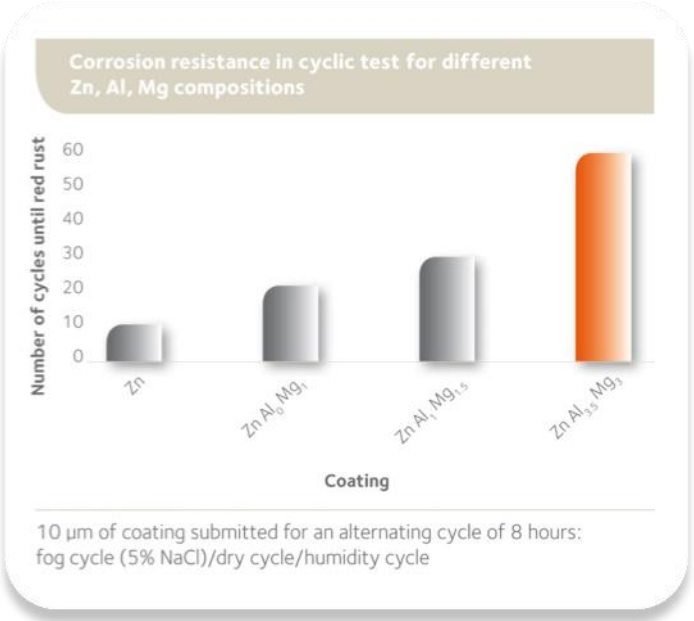
It is an exceptional, new metallic steel coating providing surface protection in a variety of applications against long-term wear and tear.

This unique coating offers a combination of attributes and provides:

- ✓ **The best corrosion resistance performance; up to 10 times better than galvanised steel**
- ✓ **The best suited protection to withstand harsh environments**
- ✓ **The most cost-effective alternative to the post-galvanised process**

The chemical composition of this coating has been optimized to provide the best corrosion-resistance results.:

It is produced on a classic industrial hot dip galvanising line, but dipped in a molten bath with a unique metallic chemical composition of zinc with 3.5% aluminium and 3% magnesium. The 3% magnesium is crucial as it creates a stable and durable layer across the entire surface and gives a far more effective corrosion protection than coatings with a lower magnesium content. As such, this coating offers significantly superior performance than alternative European products.



SILOS SPAIN

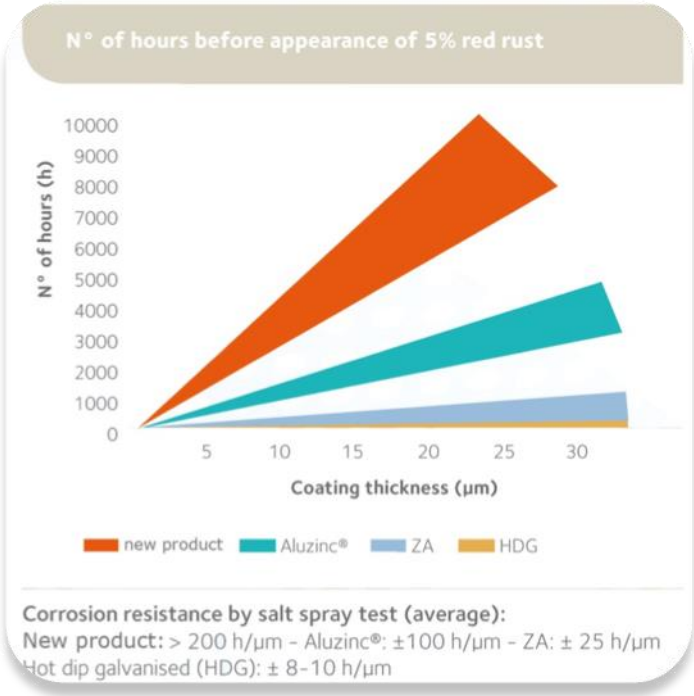
ProMag Coating

Key benefits – Superior corrosion resistance

Nothing offers better protection than this new coating in chloride or ammonia environments. Due to its unique chemical composition, it provides superior corrosion resistance than standard hot dip galvanised steel.

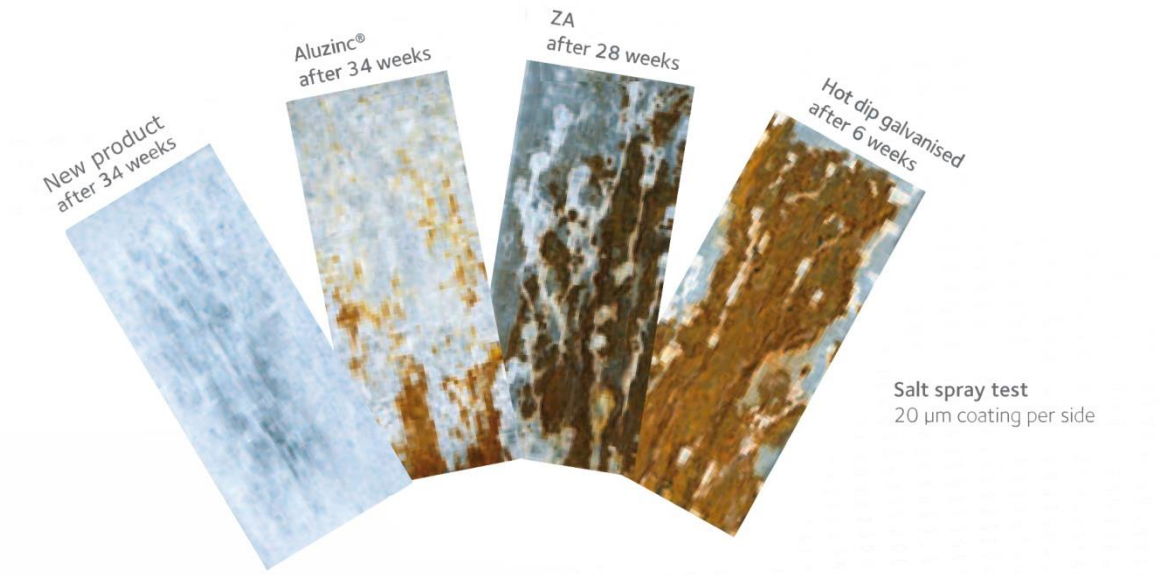
The destruction of coating that occurs in an ammonia environment is seven times less with this new coating than with a standard zinc coating. In addition, it guarantees a longer-lasting, active coating protection over time.

Over an eight-month period, a range of metallic coated products were submitted to salt spray tests. The results clearly highlighted the superior corrosion resistance performance of the new coating over other metallic coatings. No red rust was observed on the product sample.



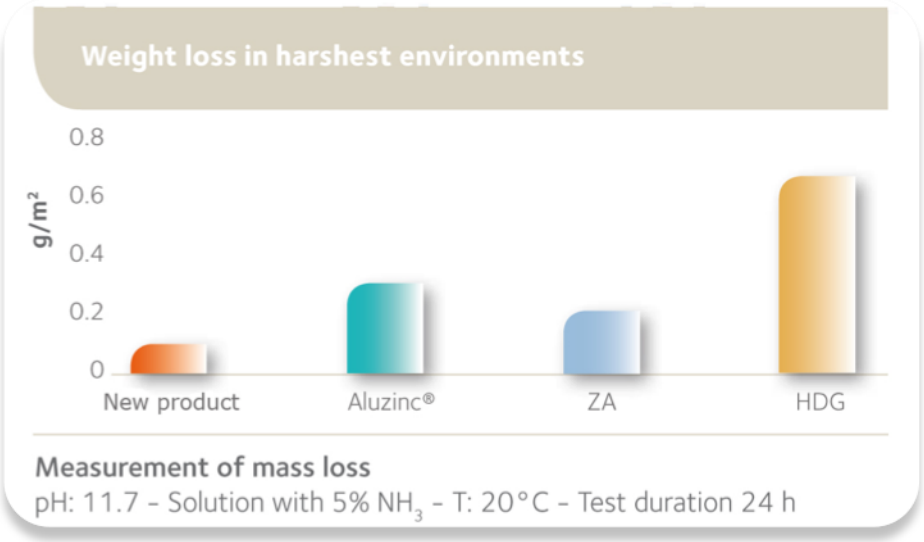
SILOS SPAIN

ProMag Coating



In highly alkaline environments (pH between 10 and 13), the ProMag Coating demonstrates superior corrosion resistance compared to other metallic coatings.

Due to its chemical composition, the product has better quality characteristics in terms of barrier protection against corrosion in an ammonia environment.



SILOS SPAIN

ProMag Coating

Key benefits – Self-repairing protection on cut edges

In addition to being fortified by a cathodic protection equivalent to zinc coating, the ProMag Coating protects exposed cut edges with a thin zinc-based protective film with magnesium, which prevents corrosive reactions. The nature of this film varies depending on the environment and the properties according to the aluminium and magnesium content.



Key benefits – An alternative to post-galvanising and other metals

The ProMag Coating offers a real advantage over post-galvanised products (with a ZM coating weight greater than 250 g/m²) and even over high value products such as stainless and aluminium.

Depending on the environment to which it is exposed, the ProMag Coating delivers a significant coating weight reduction of 2 to 4 times less than post-galvanised products, while still performing significantly better in terms of corrosion resistance and cost-effectiveness.

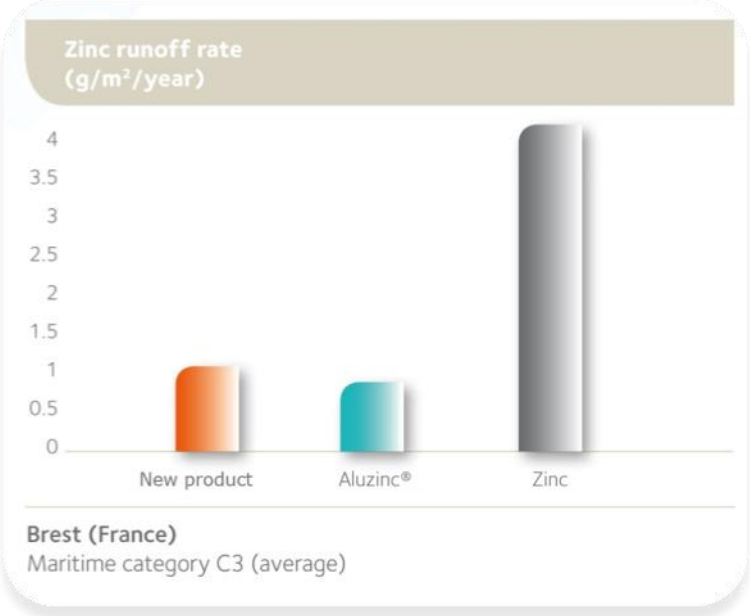


SILOS SPAIN

ProMag Coating

Key benefits – Environmentally responsible

The application of the ProMag Coating ensures the preservation of natural resources since it uses less zinc than pure zinc coatings. Moreover, like Aluzinc®, the ProMag Coating reduces considerably the zinc runoff* in soils.



SILOS SPAIN

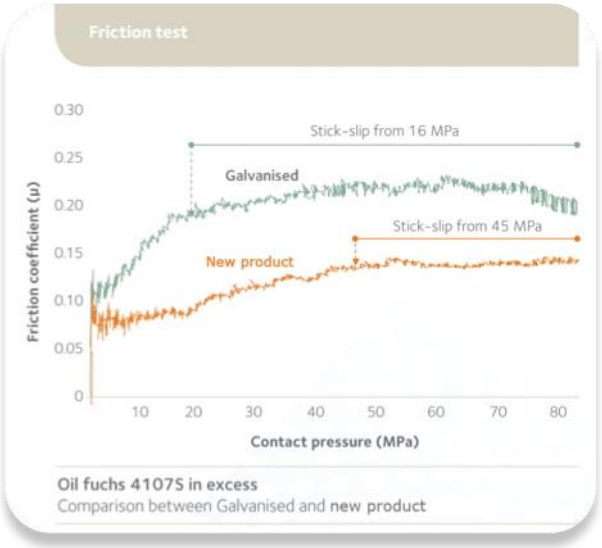
ProMag Coating

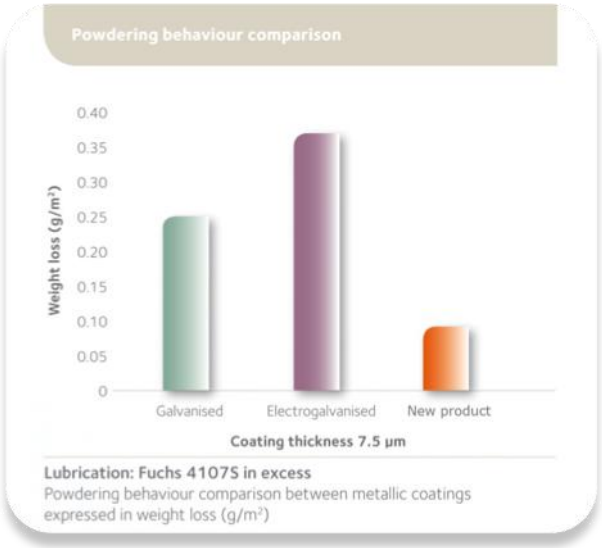
Excellent workability

Thanks to its highly resistant, adherent metallic layer, the ProMag Coating can be formed in a variety of methods, including bending, drawing, profiling etc.

By decreasing the amount of metallic coating, while safeguarding corrosion resistance levels, spot welding is consequently improved. A protective oxide barrier covers the weld, preventing the development of red rust. Thinner coating facilitates processing and delivers substantial savings.

The ProMag Coating performs three times better than standard galvanised steel, reduces powdering effect and loses less coating weight in processing tools.





SILOS SPAIN

ProMag Coating

Metallic coatings features comparison

Rate of corrosion	Average Zinc loss (Zinc / Year)	Corrosion-free service life (Year)				
		Z275	Z350	Z450	Z600	ProMag
C1 very low	0,1	206,00	263,00	320,00	480,00	-
C2 low	0,4	51,50	65,75	80,00	120,00	-
C3 average	1,4	14,71	18,79	22,86	34,29	-
C4 high	3,15	6,54	8,35	10,16	15,24	65,00
C5 very high	6,3	3,27	4,17	5,08	7,62	33,50

SILOS SPAIN



SILOS SPAIN

Our Office

C/Gobelas, 15
28023 Madrid
Spain

Our Manufacturing Plant

C/Astronauta Pedro Duque
29320 Campillos, Málaga
España

Get in Touch

silos@silosspain.com
(034) 606 80 17 22
(034) 924 75 00 08

www.silosspain.com