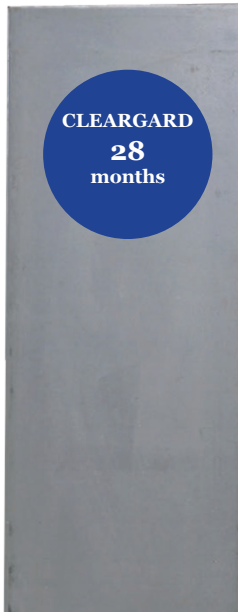
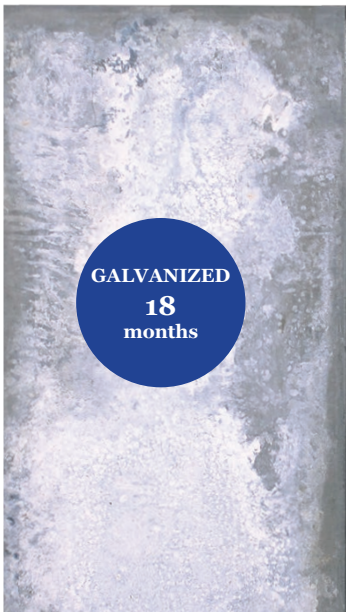




# CLEARGARD™

CORROSION RESISTANT  
*Steel Steps*

# WHAT IS CLEARGARD™?



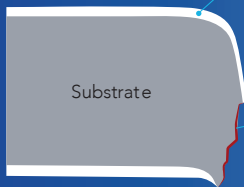
Fox Pool is proud to offer ClearGard™ – the most effective non-corrosive coating for steel steps in the industry. ClearGard™ is a hot-dip coated steel sheet that has a layer of Zinc, 6% Aluminum, and 2% Magnesium. The effects of magnesium and aluminum together allow our ClearGard™ coated steps to have excellent corrosion resistance, scratch resistance, and formability.

## Mechanism of corrosion resistance on cut edge

Corrosion resistance is achieved on cut edge parts by covering the ends with a zinc-based protective film that contains Al and Mg from the coating layer.

Initial exposure period  
(up to several weeks)

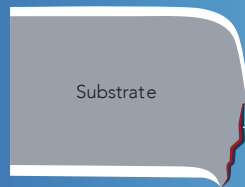
**CLEARGARD**



Initial rust due to oxidation

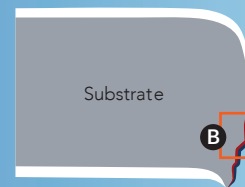
The exposed cut edge of substrate is oxidized due to rain, condensation, etc.

Initial exposure period  
(several weeks to several years)



Cut edge is covered with protective film

Long exposure period



Gradually turns darker

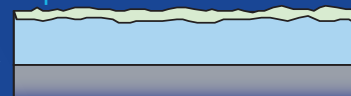
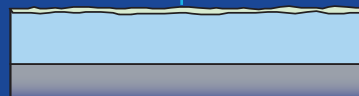
Eventually changes to gray-black

# HOW DOES IT WORK?

## Mechanism of corrosion resistance on flat section



protective surface film



The fine zinc-based protective film containing Mg covers the cut edge as the Zn, Al, and Mg transfers out from the coating layer.

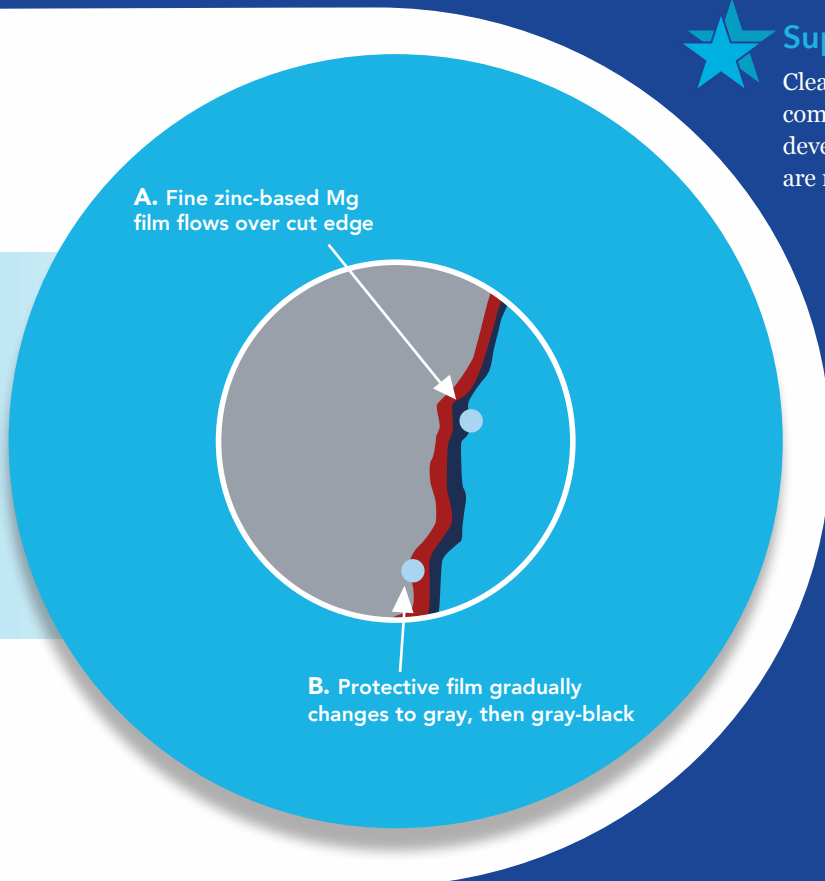
Progress of **CLEARGARD** Corrosion

Al and Mg in the coating layer of ClearGard™ combine to form a fine, tightly adhered zinc-based protective film on its surface as time passes. This protective film suppresses corrosion of the ClearGard™ coating.

# WHY IS IT IMPORTANT?

ClearGard™ offers superior protection against corrosion on Salt Generator Pools, **up to 5x's more effective than standard galvanization.** It also offers increased protection when servicing areas with a high water table or acidic ground conditions.

Customization of steps is still achievable, as the steel can be bent and formed without the coating cracking on the edges. **Fox Pool ClearGard™-coated steel is covered by a lifetime, 1-time transferable warranty.**



## Superior to other like products

ClearGard's unique chemical composition of Zn, Al and Mg combines to form a firm coating layer. This unique coating develops thin film byproducts unlike that of competitors, that are remarkably corrosion resistant—even over cut edges.



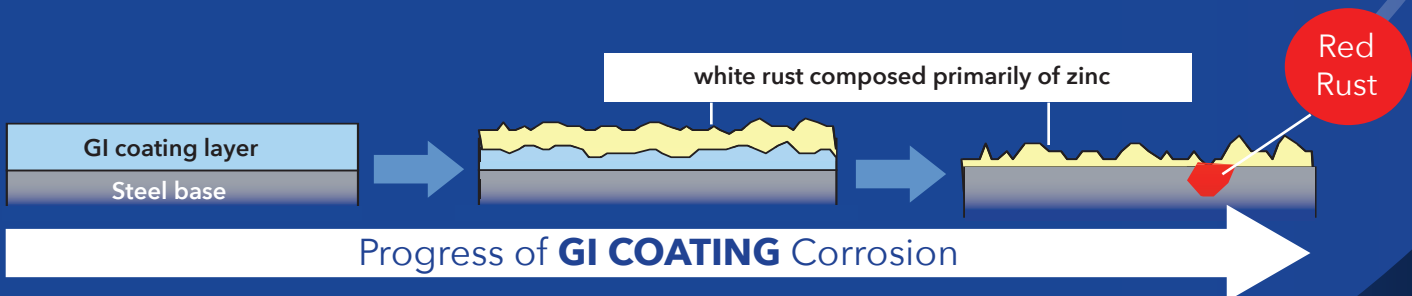
## Eco-friendly

ClearGard's corrosion resistance will allow customers to significantly reduce coating thickness which benefits the environment. Specifically, reducing coating thickness effectively decreases the amount of minerals mined from the earth, reduces harmful runoff dispersed into the soil, and reduces coating residue at steel recycling plants.







## Protection on cut edges

When the ClearGard coating layer corrodes in the rain, Zn and Mg flow over the cut edge. These elements form a fine zinc-based protective film that helps ensure a long product life even against harsh elements.



# SEEING *IS BELIEVING*

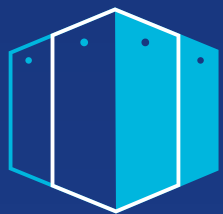
## *Superior Corrosion Resistance of ClearGard*

TIME	100h	1000h	5,000h
<b>CLEARGARD™</b>			
55% Al-Zn alloy coated steel	 <b>Red rust occurs</b>		 <b>Red rust occurs</b>
Zn-5% Al alloy coated steel			
Galvanized steel		 <b>Red rust occurs</b>	

\* Appearances of cut edge sections after salt spray test (Thickness 0.126", coating weight 0.40/0.40 oz/ft<sup>2</sup>, no chem treat)

\* ClearGard produced to ASTM A1046 specifications

*FOR MORE ON*



# CLEARGARD™

Please contact your Fox Pool Representative or Customer Service.

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