

EcoTri® NoCo 2.0

Cobalt-free thick film passivate for zinc



General Metal Finishing

Corrosion resistant coatings

atotech.com

Resistant
against
210 °C baking



Co-free

F-free

Unique on the cobalt-free passivate market

Excellent color stability even after baking

EcoTri® NoCo 2.0 is a Cr(III)-based iridescent passivate for zinc surfaces. The newest generation is completely cobalt and fluoride-free and offers an innovative feature that is unique to cobalt-free passivates: the ability to withstand hydrogen de-embrittlement baking even after passivation. After baking at 210 °C for 6 – 8 hours, EcoTri® NoCo 2.0 exhibits no significant changes in appearance or evidence of corrosion.

Features and benefits

- Iridescent passivate for alkaline and acid zinc
- No decrease of corrosion resistance after hydrogen de-embrittlement baking
- Excellent color stability after heat treatment
- Very low zinc dissolution rate
- Cobalt and fluoride-free
- Compatible with lubricated sealer e.g., Corrosil® Plus 315L

A powerful passivate for the automotive industry



Figure 1

Alternative to cobalt-containing passivates

EcoTri® NoCo 2.0 can be applied over alkaline and acid zinc deposits and is suitable for fasteners and automotive applications. With protection against white corrosion lasting up to 120 hours in barrel applications and up to 144 hours in rack applications (NSST after baking), EcoTri® NoCo 2.0 offers the same high performance as cobalt-containing passivates.

From top left to bottom right: Figure 1 shows an alkaline zinc fastener after plating, an alkaline zinc fastener after baking at 210 °C for 6 hours, an acid zinc fastener after plating and an acid zinc fastener after baking at 210 °C for 6 hours.

Make-up of 100 l

	Liter	kg	Type of electrolyte
Water	~ 89.6	~ 89.6	
EcoTri® NoCo 2.0 A	10 (9 - 11)	12.1 (10.9 - 13.4)	
Optional: EcoTri® Amplifier	0.0 - 4.0 0.0 - 2.0	0.0 - 4.5 0.0 - 2.3	Alkaline zinc Acid zinc

To achieve high corrosion protection and baking resistance, the EcoTri® Amplifier is required.

Working parameters

Temperature	35 °C (30 - 40 °C)
pH	2.3 (2.0 - 2.5)
Dipping time	45 - 75 seconds

