

Cobalt-Free

POST-PLATE PROCESSES



Cobalt is an important, rare ferromagnetic metal. It is used for super alloys, machine steels, magnets, chemicals (including electroplating), and various other industries; however, over 50% of its consumption is batteries and storage devices. The global push towards Electric Vehicles (EV) for automotive has had a significant impact on the economy of cobalt. The demand is expected to continue to outpace the supply by a significant amount. This adds up to existing and rising concerns about regulations on the use of cobalt. It has been listed as a material of very high concern on REACH.

For electroplating, cobalt is used in some alloy deposits and as a component in high-performance trivalent chromium passivates. For passivates, it functions to increase corrosion protection and add blue color (for clear passivates). In response to the volatility in the market and the growing regulatory concerns, Pavco has developed a comprehensive line of Co-free passivates to provide effective alternatives.

PRODUCTS:

HyProTec™ LD	Next-Generation high-performance clear trivalent passivate for zinc plated substrates. Cobalt-Free, RoHS, and REACH compliant. HyProTec LD provides improved synergy with existing HyProCoat topcoat chemistries, delivering superior performance to current processes.
HyProTec™ 291	Cobalt-Free trivalent passivate for zinc and zinc-nickel electrodeposits. HyProTec 291 exceeds 72 hrs corrosion protection per ASTM B 117. RoHS, ELV, and WEEE compliant. HyProTec 291 is an ideal replacement in applications that require high performance with excellent blue color.
HyPro™ 88	Economical, cobalt-free trivalent passivate for zinc electrodeposits. HyPro 88 provides over 48 hrs of corrosion protection per ASTM B 117. It imparts a consistent blue hue to zinc plated work.
HyProBlack™ 3000CF	A trivalent black passivate system for use over alkaline zinc deposits. The system matches the performance of industry standard black processes when used in conjunction with HyPro 250CF. Superior stability compared to iron-based blackening additives.
HyPro™ 250CF	A secondary trivalent chromium passivation for use over Pavco's black trivalent passivates. HyPro 250CF will extend the corrosion protection of a trivalent passivate by up to 100 hours to white salts.

Our Cobalt-free process offering continues to grow, delivering exciting alternatives tackling both compliance and cost volatility.

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IT'S HOW YOU FINISH

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