



Multi-metal pretreatment alternatives

P-free

Zn and
Ni-free

Cr(VI)-free

A superior approach to paint pretreatment

Many environmental, safety and application disadvantages exist with conventional paint pretreatment processes such as iron phosphates, zinc phosphates and chromates. Regulated or harmful substances such as phosphorus, zinc, nickel, cobalt and hexavalent chromium utilized in these conventional processes are driving applicators to consider alternative, more sustainable processes. Phosphate-based pretreatments generate a significant amount of sludge and scale in process tanks, on washer walls and in the risers and nozzles. Sludge and scale formation requires frequent line maintenance, leading to increased hazardous environment exposure for workers and costly downtime.

Interlox[®] processes are the ideal solution for replacing conventional phosphate-based pretreatments, providing more sustainable and economical processes for paint applicators. Interlox[®] is suitable for use with multi-metals and various paint types (wet paint, powder paint, e-coat). Global manufacturers of appliances / white goods, aluminum wheels, automotive / motorcycle components and architectural aluminum profiles benefit from the Interlox[®] process advantages.

Products built for sustainability



Figure 1-4:
Interlox® processes are currently utilized by global OEMs and Tier 1 manufacturers in the appliance, aluminum wheel, automotive / motorcycle components and architectural aluminum industries

Interlox® 5707

Interlox® 5707 is a phosphorus-free, zirconium pretreatment process designed to provide superior paint adhesion (wet paint, powder paint and e-coat) and corrosion resistance for a variety of metal substrates (steel, galvanized steel, aluminum, zinc and magnesium). Interlox® 5707 offers stable performance across variable operating conditions and automated replenishment capabilities, simplifying process operation. Ideal for high line speed / multi-metal washer systems, Interlox® 5707 is suitable for white goods (residential and commercial appliances), electrical enclosures, HVAC equipment, aluminum wheels, automotive and motorcycle components and a variety of other applications.

Interlox® 5705

Similar to Interlox® 5707, Interlox® 5705 is a phosphorus-free, zirconium pretreatment process, providing adhesion performance and corrosion resistance comparable to zinc phosphates. Interlox® 5705 is best suited for architectural aluminum applications, approved by QUALICOAT (A-065), GSB International and meets AAMA 2603, 2604 and 2605 performance requirements.

Interlox® 338

Interlox® 338 is a phosphorus and Cr(VI)-free process suitable for aluminum pre-paint and passivation processes and is approved by QUALICOAT (A-066) for architectural aluminum applications. Eliminating the use of Cr(VI), Interlox® 338 reduces HES risks while maintaining the performance benefits of a conventional chrome-based pretreatment.

Features and benefits

- Operates at ambient temperature, reducing energy costs
- Produces minimal sludge and scale, minimizing employee exposure to hazardous chemicals and conditions (confined spaces)
- Suitable for multi-metal applications, improving plant efficiency
- Stable performance across variable operating conditions (temperature, pH, contact time, water hardness), providing consistent performance
- Automated replenishment capabilities, simplifying process operation
- Exhibits a long solution life, reducing waste treatment and labor costs
- ELV, RoHS and WEEE compliant

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