



Paint & Pretreatment Products & Services

## **INDUSTRIES SERVED:**

Secondary Manufacturing Operations for Manufacturers of Parts for Automotive, Aerospace, Aircraft, Defense/Military, Mining/Oil, Marine, Medical, Rail, Packaging, Food Processing, Chemical Processing, Wind Power, Vacuum/Thermoforming/Pressure Forming & Molds, Maintenance & Industrial.

## **APPLICATION METHODS & EQUIPMENT:**

Automatic & Automated production Spray Coating, Dipspin, Dip Drain, Tumble Spray, Chain-On-Edge, Barrel / Basket / Rack Pretreatments.

## **COATING FUNCTIONS:**

Corrosion resistance, detection avoidance, dry film lubrication, release, non-stick, low-friction, high-temp, adhesion, noise/vibration/harshness reduction, abrasion & wear resistance, anti-galling, part ID.

## **MATERIALS CLEANED, PRETREATED & COATED:**

Steel, Armor, Stainless Steel, Aluminum, Titanium and various exotic metals.

## **PAINTS, COATINGS & PRETREATMENTS:**

**PRETREATMENTS** – Phosphating, Alodine®, Chromating, Ecoat, Passivating, Parts Washing & Stripping, Shot & Grit Blasting, Rust Removal, Acid & Alkaline Cleaning/Pickling, Seals.

**PAINTS & COATINGS** – CARC & Other Military Spec Coatings, RTM Adhesives (Chemlok®, Thixon®), Zinc-Rich & Aluminum-Rich Organic & Inorganic Coatings, Non-stick Solid Film Lubricants, Fluoropolymers (Teflon®, Everlube®, Emralon®, Xylan®), Molydisulfides (Sandstrom®, Everlube®, Molykote®), Graphites (Delta Forge®, Molydag®), Epoxies & Urethanes, Plastisol/PVC.

**CARC** is a defense & aerospace application designed to be particularly resistant to chemical/biological weapons, extreme environments & detection.

**RTM Adhesives** are used to bond a variety of rubber & synthetic materials to metals in the automotive, rail/off-highway, general industrial, aerospace and military industries. These products are commonly used to resolve NVH (Noise, Vibration & Harshness) issues in such products as suspension systems.

**Solid Film Lubricants**, Fluoropolymer (PTFE's & TFE's), Molydisulfides (Moly's) and Graphites, are used primarily for friction reduction. Long-term lubricity is conferred upon the coated part without oils or greases. In addition, most solid film lubricants offer excellent resistance to corrosion, high pressures, extreme heat & cold, strong acids and strong alkalis. Common uses include fasteners, assemblies with moving parts and extrusion billet/slugs.

**Zinc & Aluminum Organic Paints & Coatings** contain zinc or aluminum metal flakes that create a thin corrosion resistant barrier able to withstand in excess of 2,000 salt spray hours (ASTM B-117). Common uses are fasteners, springs, housings, tubes, exterior parts & components.

**Plastisol® / Polyvinyl Chloride (Hot-Dip PVC)** is a rubbery coating available in various hardnesses and colors. Common uses are non-slip surfaces, scuff-resistance, noise reduction, corrosion prevention (diluted acids and alkalis). PVC withstands considerable stress from bending, embossing and drawing, and can tolerate moderately high temperatures. With special additives, it is able to resist fungal growth and UV degradation.