The leading water-based inorganic metal finishing system recognized around the world as a proven and cost effective alternative to both electro and mechanical platings and solvent-based organics. DACROMET® and our various sealers and topcoats can be applied to a variety of substrates in order to provide corrosion protection to ferrous metals. Our coating systems have gained worldwide acceptance as reliable, proven, corrosion resistant metal finishing systems which protect against road salt, humidity, solvents and other corrosive elements.




DACROMET®

Benefits & Capabilities

PLUS® SEALERS

DACROKOTE® TOPCOATS

ID TOPCOATS

DACROMET®

Our coating compositions are proprietary water based coating dispersions containing metal oxides, metallic zinc and aluminum flakes. The zinc and aluminum platelets align in multiple layers forming a metallic silver gray coating. Applied as a liquid material, the coating becomes totally inorganic after curing at 610° F/321°C.

A transmission electron microscope photograph shows a cross section magnification of the DACROMET® film. (Magnification 80,000)

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Benefits and Capabilities of DACROMET®

Benefits of DACROMET®

1. **Four-Way Corrosion Resistance**

   Barrier Protection - Many overlapping zinc and aluminum flakes provide an excellent barrier

   Galvanic Action - Zinc corrodes to protect steel

   Passivation - Metal oxides in matrix slow down corrosion reactions of zinc and steel

   Self-Repairing - Damaged areas in the coating fill with zinc oxides and carbonates

2. **Bimetallic Capabilities** - Due to the concentration of aluminum within the coating, good bi-metallic corrosion resistance with aluminum is accomplished

3. **Solvent Resistant** - When DACROMET® is cured on the metal surface, the coating becomes inorganic, and thus resistant to solvents, gasoline, brake fluids, etc.

4. **Electrically Conductive** - The high concentration of metallic flake enables DACROTIZED® parts to be electrically conductive

5. **Hydrogen Embrittlement Free** - The absence of acids or electrolysis in the coating process assures freedom from Hydrogen Embrittlement, which is commonly associated with the electroplating process

6. **Paint Base** - DACROMET® is a base for most paints,

including electrodeposited paint

Capabilities of DACROMET®

Salt Spray Performance	DACROMET®: 500 hrs minimum DACROMET®+PLUS®: 1000 hrs minimum
Heat Resistance	DACROMET®: 550° F (287° C) to 650° F (343° C) DACROMET® + PLUS®: 800° F (426° C)
Solvent Resistance	DACROMET®: Excellent DACROMET® + PLUS®: Excellent
Coating Thickness	DACROMET®: 0.2-0.3 mils DACROMET® + PLUS®: 0.2-0.5 mil

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PLUS® SEALERS

Addition of one of the PLUS® Sealers offers:

Extended bi-metallic protection with Aluminum

Consistent torque/tension values

Increased mar resistance and barrier protection

Excellent resistance to solvents, gasoline, and brake fluids

Good temperature resistance

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DACROKOTE® TOPCOATS

Addition of one of the DACROKOTE® Topcoats offers:

Uniform black appearance

Consistent torque/tension values

15 cycles Kesternich

Good mar resistance

No oil topcoat required

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ID TOPCOATS

Addition of one of the ID Topcoats offers:

Pigmented, water based, acrylic coatings

Color coding for identification

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