

# High Performance Finishes

## ClearMax 5000

**ClearMax 5000** is a trivalent chrome (chrome III) version of its proven hexavalent-free zinc finishes with the addition of a licensed "JS 500" sealer from MacDermid, Inc. Bright silver in appearance, **ClearMax 5000** does not exhibit any of the yellow tints that are common with hexavalent finishes that incorporate a sealer.

Photos

**ClearMax 5000** offers extended corrosion protection at a reasonable cost. Neutral salt spray testing indicates performance of 120 hours to initial white corrosion and 500 hours to initial red corrosion (8um/.0003 zinc). All testing is done in accordance with ASTM-B-117.

**ClearMax 5000** is approved for Chrysler specification PS8814 and Ford specification WSS-M21P17-B1. Please contact Modern Plating for information on other specifications that can be met with **ClearMax 5000**.

## HC-Black<sup>3</sup>

**HC-Black<sup>3</sup>** is a high corrosion resistant trivalent black chromate that is applied over zinc plated parts. It is a very cost effective finish for use in corrosive environments where extended protection is required.

Photos

**HC-Black<sup>3</sup>** provides a glossy black finish and is excellent for use with paints, oils and waxes due to its high level of adhesion.

## Zinc-PLUS<sup>3</sup>

Modern Plating's research has developed **Zinc-PLUS<sup>3</sup>** to meet the needs of those customers requiring the high performance of Modern's popular **Zinc-PLUS** finish but in a **trivalent** version. All drive characteristics of our hexavalent **Zinc-PLUS** finish have been maintained in the new trivalent **Zinc-PLUS<sup>3</sup>** finishes.

Photos

**Zinc-PLUS<sup>3</sup> clear** will surpass 300 hours to the first sign of white corrosion in neutral salt spray testing and 1,000 hours to the first sign of red corrosion. **Zinc-PLUS<sup>3</sup> black** will also surpass 300 hours to the first sign of white corrosion in neutral salt spray testing and over 720 hours to the first sign of red corrosion.

**Zinc-PLUS<sup>3</sup>** meets the demanding specifications of the automotive and other industries that require superior performance. **Zinc-PLUS<sup>3</sup>** offers a medium to high gloss finish, good elasticity and minimal recess fill. This permits it to be used on a wide variety of part configurations. **Zinc-PLUS<sup>3</sup>** offers significant cost savings when compared to other finishes offering this level of corrosion resistance. It meets all the adhesion requirements of the ASTM B-571 standard and has passed the climatic/cyclical testing of GM 9540P.

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**Modern Plating Corporation**

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Salt spray testing provides a controlled corrosive environment and is used to provide relative corrosion resistance comparisons of various finishes. Salt spray testing does not, by itself, provide an accurate prediction of how the finish will actually perform in real world applications. Salt spray testing results should therefore not be used to predict actual finish performance. Testing in the application must be conducted to confirm actual performance. Variability of results can occur when similar parts are tested in different salt spray chambers even though the testing conditions are nominally similar and within the ranges specified for such tests.

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Modern Plating's finishes are approved for many automotive specifications.  
Please contact Modern Plating for details.

	Hours to White Corrosion	Hours to Red Corrosion
<b>ClearMax 5000 (Chrysler DSSS14, Ford WSS-M21D17-B1)</b>		
<b>Trivalent Zinc with JS 500 Sealer</b>		
8um/0.0003 zinc	120 hours	500 hours
<b>Zinc-Plus<sup>3</sup> (GM613SM)</b>		
<b>Zinc-Plus<sup>3</sup> Clear</b>		
8um/0.0003 zinc	300 hours	1,000 hours
8um/0.0005 zinc	300 hours	1,000 hours
<b>Zinc-Plus<sup>3</sup> Black</b>		
8um/0.0003 zinc	300 hours	720 hours
8um/0.0005 zinc	300 hours	720 hours
<b>HC-Black<sup>3</sup></b>		
<b>HC Black<sup>3</sup> Trivalent Chromate</b>		
8um/0.0003 zinc	120 hours	400 hours
8um/0.0005 zinc	120 hours	600 hours

All testing is done in accordance with ASTM-B-117.

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