Improving the Performance of Electroplating
Greatly improves the anti-corrosion performance of traditional hot-dip galvanizing and electroplating. FastCoat is available in various colors and configurations to match customers’ specific application requirements.

FastCoat is a combination of electroplating and coatings, producing characteristics suitable for use in a wide range of conditions.

Features

1. **Superior Corrosion Resistance**
   Combined with zinc plating film such as ZP, YZP, HDG, FastCoat significantly improves anti-corrosion performance.

2. **Scratch Resistance**
   Combined films produce strong and scratch resistant protection.

3. **Color Variations**
   The basic color is silver, others colors are available upon request.

4. **Low Processing Temperature**
   Processing temperature is below 200°C, so physical properties of metal are not affected.

5. **Electrolytic Corrosion Resistance**
   Dramatically reduce chance of electrolytic corrosion between fasteners and aluminum/plated steel board.

New Fastener LLC
www.newfastener.com | info@newfastener.com
Coating Film Structure

FastCoat Treatment

FastCoat Treatment on Hot-Dip Galvanizing

New Fastener LLC
www.newfastener.com | info@newfastener.com
Coating Performance

**Salt Spray Test**
- 1. FastCoat
- 2. Electroplating hexavalent passivation
- 3. Electroplating trivalent passivation

<table>
<thead>
<tr>
<th>Time (hour)</th>
<th>No red rust occurred</th>
<th>Red rust occurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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</tr>
<tr>
<td>1000</td>
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</tr>
</tbody>
</table>

JIS Z 2371
Continuously spraying with 5% salt water.

**Combined Cycle Test**
- 1. FastCoat
- 2. Electroplating hexavalent passivation
- 3. Electroplating trivalent passivation

<table>
<thead>
<tr>
<th>Cycle (cycle)</th>
<th>No red rust occurred</th>
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<tr>
<td>50</td>
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</table>

JASO M609-91
One cycle contains 3 phases:
1. Salt spraying (35°C 5%) 2 hours
2. Drying (60°C 20-30%RH) 4 hours
3. Humidity exposure (50°C above 95% RH) 2 hours

**Sulfur Dioxide Gas Corrosion Test**
- Hot-dip galvanizing + FastCoat
- Hot-dip galvanizing

<table>
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</tr>
</thead>
<tbody>
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<tr>
<td>15</td>
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</tbody>
</table>

DIN 50018 (SO₂ 0.2 l)
One cycle contains 2 phases:
1. Humidity 100% (heat: 40°C±3°C) 8 hours
2. Humidity 75% (cooling 18°C-28°C) 16 hours

**Sample Tested**
- Bolt M8 X 20

<table>
<thead>
<tr>
<th>Sample Tested</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolt M8 X 20</td>
<td></td>
</tr>
</tbody>
</table>

1. FastCoat
   - Metallic zinc layer: electroplating 5µm/HDZ35
   - Special chemical conversion film: electroplating 1µm/HDG 1µm
   - Rustproof layer 10µm
2. Electroplating hexavalent passivation
   - Film 5µm
3. Electroplating trivalent passivation
   - Film 5µm

New Fastener LLC
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