Starting Formulation

SF 1824

Gloss White Enamel for Maximum Acid and Corrosion Resistance
EPI-REZ™ Resin 3520-WY-55 and 3546-WY-53 / EPIKURE™ Curing Agent 8290-Y-60

Suggested Uses
- A general use primer for metal
- Also may be used as a Concrete Coating.

Features
- Formulated for improved acid and corrosion resistance

Formula | Material | Supplier | Pounds | Gallons
--- | --- | --- | --- | ---
Part A | EPI-REZ Resin 3520-WY-55 | Hexion | 377.9 | 41.53
| EPI-REZ Resin 3546-WY-53 | Hexion | 113.8 | 12.51
| CYCLO SOL™ 150 | Shell Chemical Co. | 22.2 | 3.00
| EKTASOLV™ EP, 2-propoxyethanol | Eastman Chemical Products, Inc. | 22.7 | 3.00
| Water | | 55.4 | 6.63
| Total Part A | | 592.0 | 66.67

Part B | EPIKURE Curing Agent 8290-Y-60 | Hexion | 81.0 | 9.17
| DEE-FO™ PI-4 Concentrate Defoamer | Münzing Additives, Inc. | 4.0 | 0.47
| Ti-PURE™ R-960 titanium dioxide OR KRONOS™ 2160 | Du Pont Co. | 250.0 | 7.74
| Elementis Pigments | | | |
| Water | | 33.3 | 3.99
| Total Part B | | 468.3 | 33.33
| Total Part A & B | | 1060.3 | 100.00

Mixing Instructions | Pounds | Gallons
--- | --- | ---
Part A | 592.0 | 66.67
Part B | 468.3 | 33.33

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Coatings Performance

To determine if a blend of EPI-REZ Resin 3520-WY-55 and EPI-REZ Resin 3546-WY-53 (77% to 23% w/w blend of dispersion as supplied) could be substituted on a pound for pound basis for an EPI-REZ Resin 5522-WY-55 dispersion in this application, we compared the performance of this starting formulation with that of Starting Formulation No. 1804.

Starting Formulation No. 1804 is a gloss white enamel based on EPI-REZ Resin 5522-WY-55 and EPIKURE Curing Agent 8290-Y-60 that was designed for maximum solvent and abrasion resistance.

The results of this performance comparison are shown on the next page.

Typical Film Properties

Table 2 / Film Performance Properties

<table>
<thead>
<tr>
<th>ASTM Method</th>
<th>Units</th>
<th>Value</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film thickness</td>
<td>D 1186</td>
<td>mils</td>
<td>1.6-1.7</td>
</tr>
<tr>
<td>24 hr. pencil hardness</td>
<td>D 1186</td>
<td>3B</td>
<td>4B</td>
</tr>
<tr>
<td>7 day pencil hardness</td>
<td>F</td>
<td>F</td>
<td></td>
</tr>
<tr>
<td>Set to touch dry</td>
<td>D 5895-B</td>
<td>hrs</td>
<td>1.5</td>
</tr>
<tr>
<td>Cotton-free dry</td>
<td>hrs</td>
<td>6.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Thru-dry</td>
<td>hrs</td>
<td>7.0</td>
<td>12.0</td>
</tr>
<tr>
<td>Adhesion</td>
<td>D 3369-A</td>
<td>5A</td>
<td>5A</td>
</tr>
<tr>
<td>MEK double-rubs</td>
<td>D 4752</td>
<td>94</td>
<td>60</td>
</tr>
</tbody>
</table>

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### Impact resistance Direct/Reverse

<table>
<thead>
<tr>
<th>Method</th>
<th>Test Code</th>
<th>Result 1</th>
<th>Result 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distilled water immersion at 60 °C</td>
<td>D 870</td>
<td>8MD-8D</td>
<td>6F-6MD</td>
</tr>
</tbody>
</table>

### Distilled water immersion at 60 °C

<table>
<thead>
<tr>
<th>Method</th>
<th>Test Code</th>
<th>Result 1</th>
<th>Result 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt spray resistance</td>
<td>B-117</td>
<td>8F</td>
<td>6F-8F</td>
</tr>
</tbody>
</table>

### Distilled water immersion at 60 °C

<table>
<thead>
<tr>
<th>Method</th>
<th>Test Code</th>
<th>Result 1</th>
<th>Result 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prohesion resistance (Expose coated panels to salt spray of 0.35%wt ammonium sulfate and 0.05%wt sodium chloride at 35 °C for one hour and then dry at 40 °C for 1 hour.)</td>
<td>8F</td>
<td>6 mm creep</td>
<td>Good adhesion</td>
</tr>
</tbody>
</table>

* “CLOA” is the abbreviation for “Complete Loss of Adhesion” after drying out

### Storage

Storage Recommendations regarding storage conditions can be obtained by visiting our web site at [www.hexion.com](http://www.hexion.com)

### General Information

General Information

These are starting formulations and are not proven in the user’s particular application but are simply meant to demonstrate the efficacy of the products and to assist in the development of the user’s own formulation. It is the user’s responsibility to fully-test and qualify the formulation, along with the ingredients, methods, applications or equipment identified herein (“Information”), by the user’s knowledgeable formulator or scientist, and to determine the appropriate use conditions and legal restrictions, prior to use of any Information.

### Safety, Storage & Handling

Please refer to the MSDS for the most current Safety and Handling information.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and protective clothing and equipment, and adherence to proper handling procedures. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them. Questions and requests for information on Hexion Inc. (“Hexion”) products should be directed to your Hexion sales representative, or the nearest Hexion sales office. Information and MSDSs on non-Hexion products should be obtained from the respective manufacturer.

### Contact Information

For product prices, availability, or order placement, please contact customer service: [www.hexion.com/Contacts/](http://www.hexion.com/Contacts/)

For literature and technical assistance, visit our website at [www.hexion.com](http://www.hexion.com)