# Starting Formulation

**SF 1600**

**Block Fill Coating**

**EPON™ Resin 828 / EPIKURE™ Curing Agent 8535-W-50**

<table>
<thead>
<tr>
<th>Formula</th>
<th>Material</th>
<th>Supplier</th>
<th>Pounds</th>
<th>Gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part A</strong></td>
<td>EPON Resin 828</td>
<td>Hexion</td>
<td>113.0</td>
<td>11.70</td>
</tr>
<tr>
<td></td>
<td>HELOXY™ Modifier 8</td>
<td>Hexion</td>
<td>37.2</td>
<td>5.02</td>
</tr>
<tr>
<td></td>
<td>Pluronic F-98 Surfactant, 25% in water</td>
<td>BASF Corp.</td>
<td>7.5</td>
<td>0.86</td>
</tr>
<tr>
<td></td>
<td>L-475 Defoamer</td>
<td>Drew Chemical Corp.</td>
<td>7.5</td>
<td>0.26</td>
</tr>
</tbody>
</table>

*Mix at low speed – 3 minutes. Add*

- Rutile Titanium Dioxide: 100.0 (3.02 gallons)
- Calcium Carbonate: 150.0 (6.67 gallons)
- Silica: Illiniois Minerals Co. 100.0 (4.55 gallons)
- Short Stuff Polyethylene Fibers: Mini-Fibers, Inc. 5.0 (0.67 gallons)

*Add water as needed for ease of dispersion.*

- Water: 144.0 (17.25 gallons)
- Total Part A: 658.7 (50.00 gallons)

| **Part B** | EPIKURE Curing Agent 8535-W-50 | Hexion | 151.0 | 17.30 |
| | L-475 Defoamer | Drew Chemical Corp. | 2.0 | 0.26 |
| | Cab-O-Sil M5 Silica | Cabot Corp. | 5.0 | 0.29 |

*Mix at low speed – 5 minutes. Add*

- Celite 499 Silica: Johns-Manville Corp. 25.0 (1.31 gallons)
- Magnesium Silicate: 100.0 (4.22 gallons)
- Short Stuff Polyethylene Fibers: Mini-Fibers, Inc. 3.0 (0.40 gallons)

*Add water as needed for ease of dispersion.*

- Water: 218.0 (26.22 gallons)
- Total Part B: 504.0 (50.00 gallons)
- Total Part A & B: 1162.7 (100.00 gallons)

## Mixing Instructions
## Resin Composition

<table>
<thead>
<tr>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>% solids</td>
</tr>
<tr>
<td>Part B</td>
<td>% solids</td>
</tr>
<tr>
<td>Part A + B</td>
<td>% solids</td>
</tr>
</tbody>
</table>

## Mix ratio Part A : Part B

<table>
<thead>
<tr>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>By volume</td>
<td>1 : 1</td>
</tr>
<tr>
<td>By weight</td>
<td>1.31 : 1.0</td>
</tr>
</tbody>
</table>

## Application

- Brush or Spray

## Cure

- Room Temperature

## Pencil Hardness (at 72 hours)

- B

## Volatiles Composition

<table>
<thead>
<tr>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>lbs</td>
</tr>
<tr>
<td>Organic</td>
<td>lbs</td>
</tr>
<tr>
<td>Total weight solids</td>
<td>%</td>
</tr>
<tr>
<td>Total volume solids</td>
<td>%</td>
</tr>
<tr>
<td>Pigment volume concentration (PVC)</td>
<td>%</td>
</tr>
<tr>
<td>Volatile Organic Compound (VOC)</td>
<td>lb/gal</td>
</tr>
<tr>
<td></td>
<td>g/L</td>
</tr>
</tbody>
</table>

## Viscosity @ 25°C

<table>
<thead>
<tr>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>KU Soft Paste</td>
</tr>
<tr>
<td>Part B</td>
<td>KU 88</td>
</tr>
<tr>
<td>Part A &amp; B, Fresh</td>
<td>KU 100</td>
</tr>
<tr>
<td>½ hour</td>
<td>KU 130</td>
</tr>
<tr>
<td>1 hour</td>
<td>KU 141</td>
</tr>
</tbody>
</table>

---

### 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.

---

© and ™ Licensed trademarks of Hexion Inc.

**DISCLAIMER**

The information provided herein was believed by Hexion Inc. ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion’s terms and conditions of sale. Hexion MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION, except that the product shall conform to Hexion’s specifications. Nothing contained herein constitutes an offer for the sale of any product.
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 proper personal 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/

For literature and technical assistance, visit our website at www.hexion.com.