# Polymac 6140 Super-Durable Carboxyl-Terminated Polyester Resin

## Description
Polymac 6140 is a carboxyl-functional polyester resin that has been specifically designed to give superior exterior durability when properly formulated in a 93:7 ratio with TGIC. The addition of emission-free blocked isocyanates considerably improves QUV and mechanical properties.

## Typical Physical Properties
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity (mPa·s) at 200°C*</td>
<td>3400-4400</td>
</tr>
<tr>
<td>Color maximum (Gardner) at 50% solids*</td>
<td>2</td>
</tr>
<tr>
<td>Acid value*</td>
<td>30-36</td>
</tr>
<tr>
<td>Tg (°C)*</td>
<td>63</td>
</tr>
<tr>
<td>Appearance</td>
<td>Water white flakes</td>
</tr>
</tbody>
</table>

## Starting Point Formulation
**FORMULA**
- Polymac 6140 552
- Aliphatic isocyanate (300 g/eq) 30
- TGIC 43
- Flow agent 7
- Benzoin 5
- Titanium dioxide 363
- Total 1000

## Film Formation
**BAKE SCHEDULE** 15 minutes at 204°C

*Theoretical values are listed. Actual values may vary depending on test method and coating composition.*
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