Elvacite® acrylic resins from Ineos Acrylics are used in a wide range of solvent based inks, coatings and adhesive applications where they can provide excellent weatherability and UV resistance, high gloss, hardness and superior abrasion resistance. They also offer excellent resistance to water, alcohol, dilute acids and alkalis, chemical fumes and corrosive and oxidising environments.

Formulations based on Elvacite® acrylic resins generally offer good adhesion to a wide range of substrates, including metals, concrete, glass and plastics. When adhesion to a certain substrate is found to be troublesome, Ineos Acrylics can provide formulations guidance that may help overcome most common adhesion problems. Untreated polyolefin substrates such as polypropylene, polyethylene and thermoplastic polyolefin alloys are known to be particularly troublesome for achieving acceptable adhesion. Elvacite® 4036 has shown improved adhesion to these difficult substrates.

Performance Benefits

- Improved adhesion to difficult substrates, such as untreated polyolefins
- Excellent weatherability & UV resistance
- High Gloss
- Excellent hardness and abrasion resistance

Physical Properties

- **Appearance:** Spherical beads
- **Glass Transition Temperature (Tg):** 50°C
- **Molecular Weight (Mw):** 60,000
- **Inherent Viscosity:** 0.24
- **Acid Number:** 3.5

*a) Typical physical properties listed are approximate values and should not be considered manufacturers release specifications. Manufacturers release specifications are subject to change without notice, please contact your Ineos Representative for the latest product specification details.

b) Typical physical properties listed are approximate values and should not be considered manufacturers release specifications. Manufacturers release specifications are subject to change without notice, please contact your Ineos Representative for the latest product specification details.*
Starting Point Formulations

The following starting formulations have been found to be useful for obtaining effective adhesion to untreated polyolefins. It has also been found that these formulations may help in providing improved adhesion to other ‘difficult’ substrates such as aluminum and galvanised steel.

Clear Lacquer for use as primer or tie-coat

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Wt%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elvacite® 4036</td>
<td>10</td>
</tr>
<tr>
<td>Xylene</td>
<td>90</td>
</tr>
</tbody>
</table>

Pigmented coating formulation for use as one-coat system

<table>
<thead>
<tr>
<th>Ingredient</th>
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<th>Supplier</th>
</tr>
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<tbody>
<tr>
<td>Elvacite® 4036</td>
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<td>Ineos Acrylics</td>
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<tr>
<td>Xylene</td>
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<td>Exxon Chemicals Ltd.</td>
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<td>Solvesso 100</td>
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<td>Disperbyk</td>
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<td>Byk-Chemie</td>
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<td>Rheotix 240</td>
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<td>Sud-Chemie Rheologicals</td>
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<td>Tioxide TR92</td>
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<td>Huntsman Tioxide</td>
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<tr>
<td>Unimoll BB</td>
<td>1.37</td>
<td>Bayer</td>
</tr>
</tbody>
</table>

**Suggested Solvents** include Toluene, Xylene and Tetrahydrofuran. Note that other solvents can cause poor adhesion.
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