Mixed Fatty Acid Fast Drying Alkyd Resin Economy

Description
ALK 3936 55 is short oil oxidising modified polyester resin for economical air drying applications and low bake systems for darker shades.

Suggested uses
- Dark Shades Vehicle refinishes
- Fast Drying industrial finishes
- Low Bake forced drying products
- Heavy duty primers

Compatibility
- Short Oil Alkyd: Less Compatible
- Medium Oil Alkyds: Less Compatible
- Amino Resins: Incompatible
- Long Oil Alkyds: Incompatible
- Chlorinated Rubber: Incompatible
- NC Resins: Incompatible
- Vinyl Resins: Incompatible

Solubility / Thinnability
- Aromatic Hydrocarbons
- Esters
- Ketones
- Limited solubility in Alcohols
- Insoluble in Aliphatic hydrocarbon

Performance
- Excellent Colour and colour retention
- Excellent Gloss and gloss retention
- Good Re-coatability
- Good adhesion to metal surface.
- Rapid Air drying

**ALK 3936 55**

**Typical Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent</td>
<td>Xylene</td>
</tr>
<tr>
<td>Oil Length in %</td>
<td>28</td>
</tr>
<tr>
<td>Acid Value (mg Koh/gm)Max.</td>
<td>15</td>
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<tr>
<td>Reducer</td>
<td>50 % in Xylene</td>
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<tr>
<td>Colour</td>
<td>Dark Brown</td>
</tr>
<tr>
<td>Viscosity in C.Ps@ 25 C (55 % Sol)</td>
<td>4000 - 5500</td>
</tr>
<tr>
<td>Viscosity @30°C in sec. B4 ford cup</td>
<td>300 - 350</td>
</tr>
<tr>
<td>Gardener Viscosity (50 % Solution)</td>
<td>X - Z</td>
</tr>
<tr>
<td>Solid Contents in %, 120 C/1 Hr.</td>
<td>54 - 56</td>
</tr>
<tr>
<td>Oh Value on resin solid basis</td>
<td>98</td>
</tr>
</tbody>
</table>

Recommendations
In air drying systems 0.05 % CO, 0.5 % Pb, 0.1 % Ca calcu as metal on solid resins content are recommended in air dry systems. In lead free systems use 0.2% - 0.6% of Zirconium can be used as an alternative to Lead.

- **Surface dry**: 15 Minutes
- **Tack free**: 120 Minutes
- **Hard dry**: Overnight

In low bake system recommended level of Melamine Formaldehyde is 5-15% on solid resin basis are added and then baked at 80c.
Storage
It should be stored indoors in the original, unopened and undamaged containers in a dry place at storage temperatures between 5°C & 30°C. Exposure to sunlight should be avoided.

Stability
Under the above-mentioned storage conditions the Stability of the resin will be 24 months ex-work.

Packing Codes
PAC 1000       Bulk tankers Mild steel
PAC 0011       Iso Tank
PAC 1011       Steel Closed head drums 200 Kgs net
PAC 5011       Second hand Steel Closed head drums 200 Kgs
* Special packing also available on request