Mixed Fatty Acid Fast Drying Alkyd Resin

**Description**

ALK 3282 70 is medium oil oxidising modified polyester resin for air drying applications and stoving systems.

**Suggested uses**

- Vehicle refinishes
- Fast Drying enamels and undercoat
- Stoving products
- Low Bake and two pack from single base resin

**Compatibility**

- Short Oil Alkyd: Compatible
- Medium Oil Alkyds: Compatible
- Amino Resins: Compatible
- Isocyanate adduct resins: Compatible
- Chlorinated Rubber: Incompatible
- NC Resins: Incompatible
- Vinyl Resins: Incompatible
- Long Oil Alkyd: Incompatible

**Solubility / Thinnability**

- Aromatic Hydrocarbons
- Esters
- Ketones
- Limited solubility in Alcohols
- Limited solubility in Aliphatic hydrocarbon

**Performance**

- Excellent Colour and colour retention
- Excellent Gloss and gloss retention
- Good Surface and through drying
- Good adhesion to metal surface.

**ALK 3282 70**

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>45</td>
</tr>
<tr>
<td>Acid Value (mg Koh/gm)Max.</td>
<td>12</td>
</tr>
<tr>
<td>Reducer</td>
<td>50 % in Xylene</td>
</tr>
<tr>
<td>Colour in Gardner Scale Maximum</td>
<td>4</td>
</tr>
<tr>
<td>Viscosity in C.Ps@ 25 C (55 % Sol)</td>
<td>2500 - 3500</td>
</tr>
<tr>
<td>Viscosity @30°C in sec. B4 ford cup</td>
<td>115 - 150</td>
</tr>
<tr>
<td>Gardener Viscosity (50 % Solution)</td>
<td>Q - S</td>
</tr>
<tr>
<td>Solid Contents in % , 120 C/1 Hr.</td>
<td>69 - 71</td>
</tr>
<tr>
<td>Oh Value on resin solid basis</td>
<td>62</td>
</tr>
</tbody>
</table>

**Recommendations**

In air drying systems 0.05 % CO, 0.5 % Pb ,0.1 % Ca calculated as metal on solid resins content are recommended in air drying 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.

In two- pack systems recommended ratios are:

<table>
<thead>
<tr>
<th></th>
<th>On Solid Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALK 3282 70 %</td>
<td>909</td>
</tr>
<tr>
<td>N - 75</td>
<td>191</td>
</tr>
<tr>
<td>AR - 75</td>
<td>243</td>
</tr>
</tbody>
</table>
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 sun shine 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.

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