Mixed Fatty Acid Fast Drying Alkyd Resin

Description
ALK 3282 55 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 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>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 Max.</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>54 - 56</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 calc 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>ALK 3282 55 %</th>
<th>On Solid Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALK 3282 55 %</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>

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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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