TEGO® Dispers 685

**DESCRIPTION**

TEGO® Dispers 685 is a high polymeric wetting and dispersing additive for radiation-curing and solventborne formulations. Stabilizes all kinds of pigments, especially organic pigments and carbon blacks. 100% active and liquid, therefore suitable for 100% solids and high solids formulations.

**KEY BENEFITS**

- 100% active and liquid
- Outstanding performance even with critical organic pigments
- Recommended for UV printing inks

**EFFECT**

- Viscosity reduction with organic pigments/carbon blacks
- Color intensity/gloss with organic pigments/carbon blacks
- Viscosity reduction with inorganic pigments/fillers
- Color intensity/gloss with inorganic pigments/fillers

**SUITABILITY**

- Waterborne
- Solventborne
- 2-pack 100%
- Radiation-curing
- Direct grind
- Resin-containing pigment concentrates
- Resin-free pigment concentrates
- Universal pastes

**TYPICAL APPLICATIONS**

- High solid industrial coatings
- Wood coatings
- Printing inks

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid value (as supplied)</td>
<td>Approx 35 mg KOH/g</td>
</tr>
<tr>
<td>Active matter content</td>
<td>100%</td>
</tr>
<tr>
<td>Amine value (as supplied)</td>
<td>Approx 50 mg KOH/g</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear to hazy liquid</td>
</tr>
<tr>
<td>Chemical description</td>
<td>High molecular weight polymer</td>
</tr>
<tr>
<td>Viscosity at 25 °C</td>
<td>Approx 85,000 mPas</td>
</tr>
</tbody>
</table>

**SOLUBILITY**

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Solubility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Not soluble</td>
</tr>
<tr>
<td>Alcohol</td>
<td>Partly soluble</td>
</tr>
<tr>
<td>TPGDA</td>
<td>Soluble</td>
</tr>
<tr>
<td>Butylacetate</td>
<td>Soluble</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>Soluble</td>
</tr>
</tbody>
</table>

**RECOMMENDED ADDITION LEVEL**

As supplied calculated on inorganic pigment: 2.0 - 15.0 %
As supplied calculated on organic pigment: 5.0 - 15.0 %
As supplied calculated on carbon black: 15.0 - 40.0 %
Recommended addition level for co-grind: 0.1 - 3.0 %

**PROCESSING INSTRUCTIONS**

- Add to the grind before dispersion.
- Add under stirring to monomer/oligomer blend or solvent.

**HANDLING & STORAGE**

When stored in an original unopened packaging between -40 and +40 °C, the product has a shelf life of at least 24 months from the date of manufacture. Solidification may occur at temperatures below 10 °C, product becomes liquid again after warming. Product properties are not affected by this process.

**REFERENCES & REGULATORY INFORMATION**

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