**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**

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

**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**

- Printing Inks
- Wood coatings
- High solid industrial coatings

**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**

- Water
- Ethanol
- TPGDA
- Butylacetate
- Mineral Spirits

**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**

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

**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.

**MSDS & REGULATORY INFORMATION**

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability on our part, including with respect to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

Evonik Resource Efficiency GmbH | Goldschmidtstraße 100, 45127 Essen, Germany | Telefon +49 201 173-2222 Telefax +49 201 173-1939 | www.coating-additives.com