**Wetting and dispersing additive**

**ZETASPERSE® 3400**

**DESCRIPTION**

ZETASPERSE® 3400 is an anionic wetting and dispersing additive for waterborne formulations. Provides excellent viscosity reduction and long-term stabilization.

**KEY BENEFITS**

- very good for quinacridone and perylene pigments
- excellent wetting properties
- good color acceptance

**EFFECT**

<table>
<thead>
<tr>
<th>Viscosity reduction with organic pigments/carbon blacks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color intensity/gloss with organic pigments/carbon blacks</td>
</tr>
<tr>
<td>Viscosity reduction with inorganic pigments/fillers</td>
</tr>
<tr>
<td>Color intensity/gloss with inorganic pigments/fillers</td>
</tr>
</tbody>
</table>

**SUITABILITY**

<table>
<thead>
<tr>
<th>waterborne</th>
<th>solventborne</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pack 100%</td>
<td>radiation-curing</td>
</tr>
<tr>
<td>direct grind</td>
<td>resin-containing pigment concentrates</td>
</tr>
<tr>
<td>resin-free pigment concentrates</td>
<td></td>
</tr>
</tbody>
</table>

**TYPICAL APPLICATIONS**

- Pigment concentrates
- Transportation coatings
- General industrial coatings
- Wood coatings

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>active matter content</th>
<th>29 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>appearance</td>
<td>clear, amber liquid</td>
</tr>
<tr>
<td>chemical description</td>
<td>aqueous solution of copolymers with groups of high pigment affinity</td>
</tr>
<tr>
<td>solvent</td>
<td>water</td>
</tr>
<tr>
<td>viscosity at 25 °C</td>
<td>Approx 500 mPas</td>
</tr>
</tbody>
</table>

**SOLUBILITY**

- Water
- Ethanol
- TPGDA
- Acetone
- Butylacetate
- Mineral Spirits
- not soluble
- partly soluble
- soluble

**RECOMMENDED ADDITION LEVEL**

As supplied calculated on inorganic pigment: 7.0 - 40.0 %
As supplied calculated on organic pigment: 25.0 - 75.0 %
As supplied calculated on carbon black: 50.0 - 200.0 %
Recommended addition level for co-grind: 0.7 - 3.0 %

**PROCESSING INSTRUCTIONS**

Add to the grind before dispersion.

**HANDLING & STORAGE**

Keep containers tightly closed in a dry, cool, and well-ventilated place. Mix thoroughly before use. Product is freeze-thaw stable; if frozen, warm to 20-40°C and mix before use. Please refer to the SDS for the most current information.

**MSDS & REGULATORY INFORMATION**

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