Wetting and dispersing additive

CARBOWET® GA-210

DESCRIPTION

CARBOWET® GA-210 is a non-ionic grind aid for waterborne formulations. Provides dynamic pigment wetting and intermediate pigment stabilization.

KEY BENEFITS

- dynamic pigment wetting
- helps pigment stabilization
- improved milling efficiency

SUITABILITY

<table>
<thead>
<tr>
<th></th>
<th>solventborne</th>
<th>waterborne</th>
<th>2-pack 100%</th>
<th>radiation-curing</th>
<th>direct grind</th>
<th>resin-containing pigment concentrates</th>
<th>resin-free pigment concentrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>not suitable</td>
<td>partly suitable</td>
<td>suitable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TYPICAL APPLICATIONS

- Architectural paints
- General industrial coatings
- Wood coatings
- Pigment concentrates

TECHNICAL DATA

- active matter content: 88 %
- appearance: clear, pale yellow liquid
- chemical description: surface active polymers
- solvent: water
- viscosity at 21°C: Approx 80 mPas

SOLUBILITY

<table>
<thead>
<tr>
<th></th>
<th>Water</th>
<th>Ethanol</th>
<th>TPGDA</th>
<th>Acetone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Butylacetate</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

RECOMMENDED ADDITION LEVEL

To improve wetting properties as supplied calculated on total formulation: 0.2 - 0.3 %
To improve intermediate stabilization as supplied calculated on total formulation: 0.5 - 2.0 %

PROCESSING INSTRUCTIONS

Add before grinding.

HANDLING & STORAGE

Keep away from direct sunlight. Overheating of an ethoxylate stored under air should be avoided. When an ethoxylate is vigorously mixed in the presence of air or oxygen at temperatures > 125°F (> 50°C), it can degrade product quality. Storage under an inert atmosphere is recommended. Keep containers tightly closed in a dry, cool, and well-ventilated place. Product is freeze-thaw stable; if it phase separates or freezes at colder temperatures, warm container to 40°C and mix thoroughly before use.

MSDS & REGULATORY INFORMATION

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Evonik Resource Efficiency GmbH | CARBOWET® GA-210 | 3/26/2020