Defoamer/deaerator for waterborne formulations

SURFYNO\textsuperscript{\textregistered} MD 20

**DESCRIPTION**

SURFYNO\textsuperscript{\textregistered} MD 20 is a very compatible molecular defoamer based on Gemini surfactant technology. Free of silicone and silica. Offers additional dynamic wetting properties.

**KEY BENEFITS**

- universal use in waterborne formulations
- effectiveness against macro- and micro-foam in combination with high compatibility
- highly recommended in combination with classical silicone-based defoamers or substrate wetting additives

**APPLICATION RECOMMENDATION**

Brush application/roller application
Airless spraying
Compressed air spraying
Flexo/gravure printing
Dip coating, flow coating, curtain coating
Flooring

**SUITABILITY**

- waterborne ☑
- solventborne ☒
- 2-pack 100% ☑
- radiation-curing ☑
- addition to the grinding stage ☔
- addition to the let-down stage ☑

**TYPICAL APPLICATIONS**

- Wood coatings
- General industrial coatings
- Printing inks
- Car OEM coatings

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>active matter content</td>
<td>100 %</td>
</tr>
<tr>
<td>appearance</td>
<td>clear colored liquid</td>
</tr>
<tr>
<td>chemical description</td>
<td>organic based Gemini molecular defoamer</td>
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<tr>
<td>solvent</td>
<td>-</td>
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**SOLUBILITY**

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Water</th>
<th>Ethanol</th>
<th>TPGDA</th>
<th>Acetone</th>
<th>Butylacetate</th>
<th>Mineral Spirits</th>
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<tbody>
<tr>
<td>Solubility</td>
<td>☐</td>
<td>☑</td>
<td>☒</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Partly soluble</td>
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<td>☒</td>
<td>☒</td>
<td>☑</td>
<td>☑</td>
<td>☒</td>
</tr>
<tr>
<td>Suitable</td>
<td>☑</td>
<td>☒</td>
<td>☒</td>
<td>☑</td>
<td>☑</td>
<td>☐</td>
</tr>
</tbody>
</table>

**RECOMMENDED ADDITION LEVEL**

As supplied calculated on total formulation: 0.1 - 1.0 %

**PROCESSING INSTRUCTIONS**

Can be introduced in the grind and let-down stage.

**HANDLING & STORAGE**

SURFYNO\textsuperscript{\textregistered} MD-20 surfactant should be stored under dry and clean conditions between -10 °C and 50 °C. Product is freeze-thaw stable; if it phase separates or freezes at colder temperatures, warm container to 40 °C and mix thoroughly before use. Please refer to Material Safety Data Sheet.

**MSDS & REGULATORY INFORMATION**