Defoamer/deaerator for waterborne formulations

SURFYNOL® DF-110 D

DESCRIPTION
SURFYNOL® DF 110 D is a very compatible molecular defoamer based on Gemini surfactant technology. Free of silicone and silica. Offers additional dynamic wetting properties.

KEY BENEFITS
- effectiveness against macro- and micro-foam in combination with high compatibility
- provides additional dynamic wetting properties
- highly recommended in combination with classical silicone-based defoamers

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

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

TYPICAL APPLICATIONS
- Car OEM coatings
- General industrial coatings
- Printing inks

TECHNICAL DATA
- active matter content 32 %
- appearance clear colored liquid
- chemical description acetylenic diol based molecular defoamer
- solvent dipropylene glycol

SOLUBILITY

<table>
<thead>
<tr>
<th></th>
<th>Water</th>
<th>Ethanol</th>
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<tbody>
<tr>
<td>TPGDA</td>
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<tr>
<td>Butylacetate</td>
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<td>Mineral Spirits</td>
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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
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. Please refer to the SDS for the most current information.

MSDS & REGULATORY INFORMATION

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard 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.

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