AFCONA – 3581

Chemical Composition
Organically modified polysiloxane for aqueous systems

Product general description
Silicone-based leveling and anti-crater agent for aqueous coatings that does not influence intercoat adhesion.

Product Properties
AFCONA – 3581 is the 50% solid version of AFCONA – 3580, an organically modified polysiloxane with very short chain repeatable units of siloxane. These small molecules allow it to move very quickly to an area of defects. This offers very good anti-crater properties without causing intercoat adhesion problems.

AFCONA – 3581 is widely used in electroplating and electrodeposition coatings to prevent crater formation. It also offers good leveling and a smooth appearance in the finished coating. It is not itself an ionic structure; it may be used in anionic and cationic systems.

The use of AFCONA-3581 gives the following advantages:
1. excellent anti-crater behavior
2. improved leveling
3. better substrate wetting
4. no intercoat adhesion problems
5. little or no foam stabilization

Note: Due to its small molecules, the slip performance of AFCONA-3581 is reduced.

AFCONA-3581 is recommended for use in all types of waterbased coatings with a pH range of 4 - 10.

Product specification
<table>
<thead>
<tr>
<th>Active ingredients</th>
<th>50 - 54%</th>
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<tbody>
<tr>
<td>Solvent</td>
<td>Methoxy Propanol</td>
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<tr>
<td>Color</td>
<td>max.3</td>
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<tr>
<td>Appearance</td>
<td>transparent to slightly yellowish liquid</td>
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</tbody>
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Addition and dosage
AFCONA-3581 may be added at 0.1 - 1.0% based on total formulation. Under normal conditions, 0.1 – 0.3% based on total formulation is sufficient.

Incorporation
AFCONA-3581 should be added prior to, or after, processing

Storage
AFCONA-3581 should be stored in a cool, dry place. When kept in its original, unopened container, it will keep up to 3 years from the date of manufacture. The expiration date is indicated on the container.

Packaging
55 lb and 397 lb non-returnable containers