AFCONA – 4046

**Chemical Composition**
Modified polyurethane polymer

**Product general description**
High molecular weight polymeric dispersant for deflocculation of all types of pigments

**Product Properties**
AFCONA-4046 is a very effective polymeric dispersant which stabilizes inorganic and organic pigments, as well as carbon blacks. Steric hindrance provides very good stability performance with all type of pigments. This results in:
- improved gloss and DOI
- reduced flooding problems
- higher color strength
- lower viscosity

AFCONA – 4046 is compatible with almost all solvent-based resins. However, this product is mainly used in industrial paints such as heat-cured coatings, epoxies, UPE’s, polyurethanes and other resin systems that require very good pigment stability.

AFCONA – 4046 is also widely used as a dispersant in the preparation of universal pigment concentrates.

Note: AFCONA – 4046 will become slightly hazy at temperatures below 5°C. This will not influence the performance of the product.

**Product specification**

<table>
<thead>
<tr>
<th>Active ingredients</th>
<th>39 – 41%</th>
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<tbody>
<tr>
<td>Solvents</td>
<td>Butylacetate / Methoxy Propyl Acetate/ Sec-butanol</td>
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<tr>
<td>Density at 20 °C</td>
<td>0.96 – 0.99 g/cm³</td>
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<tr>
<td>Amine value</td>
<td>10 - 25 mg KOH/g</td>
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<td>Flashpoint</td>
<td>24°C</td>
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<tr>
<td>Color</td>
<td>max.3</td>
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**Addition and dosage**
Add AFCONA-4046 according to the dosages listed below, which should be calculated based on the weight of pigment in the formula:

- TiO2 : 2 - 3%
- Other inorganic pigments : 2 - 4%
- Organic pigments : 20 - 40%
- Carbon blacks : 20 - 60%

**Incorporation**
AFCONA-4046 should be incorporated in the mill base before adding the pigments.

**Storage**
AFCONA-4046 should be stored in a cool, dry place. When kept in its original, unopened container, it will keep up to 5 years from the date of manufacture. The expiration date is indicated on the container.

**Packaging**
55 lb and 419 lb non-returnable containers