**AFCONA – 4050**

**Chemical Composition**
Modified polyurethane polymer

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

**Product Properties**
AFCONA-4050 is an effective polymeric dispersant used to stabilize inorganic and organic pigments, as well as carbon blacks. Steric hindrance gives it 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-4050 is used in general industrial where performance requirements are not as high as in OEM and Coil Coating. Thus, it mainly is used in Polyurethane, Epoxy, NC, and general industrial heat-cured paints.

AFCONA-4050 offers a good combination of price and performance. It performs similarly to high quality dispersants, such as AFCONA – 4046 and AFCONA – 4047.

AFCONA – 4050 also may be used as dispersant in the preparation of universal pigment concentrates.

Note: AFCONA – 4050 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>43 – 47%</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>0.975 – 0.995 g/cm³</td>
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<tr>
<td>Amine value</td>
<td>10 - 25 mg KOH/g</td>
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<tr>
<td>Flashpoint</td>
<td>24°C</td>
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<tr>
<td>Color</td>
<td>max.10</td>
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**Addition and dosage**
Add AFCONA-4050 according to the dosages listed below, which should be calculated based on the percent of active ingredient in the dispersant and 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-4050 should be incorporated in the mill base before adding the pigments.

**Storage**
AFCONA-4050 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