AFCONA – 4598

**Chemical Composition**
Special designed block copolymer

**Product general description**
High molecular weight polymeric dispersant for deflocculation of pigments in water-based decorative as well as industrial paints

**Product Properties**
AFCONA-4598 is the more economic version of AFCONA – 4595. This is a wetting and dispersing additive for water-based coatings and pigment concentrates. It prevents negative flocculation effects like; flooding and floating and improve the storage stability.

AFCONA-4598 is recommended for all kind of pigments. Also very suitable for transparent iron oxides.

It stabilize the pigments through effective steric hindrance and electric repulsion.

This all result in the concentrates in:
- lower viscosities and
- very stable dispersions with good storage stabilities
- high color strengths

In the final coating in:
- no flooding and floating
- high color strength
- high gloss
- good storage stability

AFCONA-4598 is complete water-soluble and does not necessary has to be neutralize.

Note: for optimum dispersing use no resin in grinding phase

**Product specification**

<table>
<thead>
<tr>
<th>Active ingredients</th>
<th>39 – 43%</th>
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</thead>
<tbody>
<tr>
<td>Solvent</td>
<td>Water</td>
</tr>
<tr>
<td>Density at 20 °C</td>
<td>1.02 – 1.06 g/cm³</td>
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<tr>
<td>Refraction Index</td>
<td>1.39 – 1.41</td>
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<tr>
<td>Acid value</td>
<td>7 – 15 mg KOH/g</td>
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<tr>
<td>Color</td>
<td>max 11</td>
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</tbody>
</table>

**Addition and dosage**
Calculation method for the required amount of active ingredient on pigment:

- TiO2                  : 4 - 5%
- Other inorganic pigments : 8 - 12%
- Organic pigments      : 12 - 30%
- Carbon blacks         : 50 - 60%
- Transparent Iron Oxides : 10 -15%

**Incorporation**
AFCONA-4598 should be incorporated in the mill base before adding the pigments

**Storage**
AFCONA-4598 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 3 years from the date of manufacture. The expiry date is indicated on the container.

Note: Below 0 °C separation or turbidity could occur. Warm up to 20 °C and mix well

**Packaging**
55 lbs and 397 lbs non-returnable containers