AFCONA – 4560

**Chemical Composition**
Modified polyacrylate polymer

**Product general description**
High molecular weight, pH-independent polymeric dispersant for deflocculation of pigments in water-based decorative and industrial paints

**Product Properties**
AFCONA-4560 is a polymeric dispersant for stabilizing inorganic and organic pigments in water-based systems. Steric hindrance and electron repulsion offer very good stability performance with all types of pigments. This results in:
- better gloss
- color strength
- flocculation stability
- anti-flooding behavior

AFCONA-4560 is pH-independent and has a wide compatibility in most commonly used water-based decorative and industrial coatings chemistries. AFCONA-4560 does not influence the water resistance of the coating.

At standard operating temperatures, AFCONA-4560 is completely water-soluble and does not require neutralization. However, neutralization will improve the viscosity reduction performance of this product.

AFCONA-4560 is not water-soluble above 60°C (but the solubility will return once the temperature falls below 60°C). Therefore, keep milling temperatures below 60°C.

AFCONA-4560 is recommended for the manufacturing of resin free pigment concentrates for decorative and industrial paints. It also can be combined with AFCONA – 6225 for cost savings without compromising any dispersion quality.

Note: AFCONA – 4560 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>38 – 42%</th>
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<tbody>
<tr>
<td>Solvent</td>
<td>Water</td>
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<tr>
<td>Density at 20 °C</td>
<td>1.02 – 1.06 g/cm³</td>
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<tr>
<td>Amine value</td>
<td>25 – 35 mg KOH/g</td>
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<tr>
<td>Color</td>
<td>max. 6</td>
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**Addition and dosage**
Add AFCONA-4560 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-4560 should be incorporated in the mill base before adding the pigments

**Storage**
AFCONA-4560 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