DISPARLON AQ-870
(Rheology control agent for water-borne system)

DISPARLON AQ-870 is a polyamide based rheology control agent for water-borne systems. A 3-D network structure is formed by interaction of AQ-870 with the coating vehicle; as a result it prevents sagging and pigment settling. AQ-870 is different from traditional water-borne thickening agents since it has strong pseudoplasiticy. AQ-870 can be easily added into systems with a dissolver.

ADVANTAGES
- Easy incorporation
- Prevents hard caking by minimizing pigment settling
- Excellent humidity resistance
- Orientation of metallic and pearlescent pigments
- Highly shear thinning

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light yellow liquid</td>
</tr>
<tr>
<td>Active component</td>
<td>Polyamide</td>
</tr>
<tr>
<td>Non-volatile</td>
<td>15%</td>
</tr>
<tr>
<td>Solvent</td>
<td>Water/ 2-ethylhexylalcohol</td>
</tr>
<tr>
<td>Acid value</td>
<td>9.1</td>
</tr>
</tbody>
</table>

INCORPORATION
- Post addition by dissolver is recommended. It can be added at any production stage but normally recommended at the final stage.
- It can be added at the temperature from 25°C to 50°C but recommended to add at less than 40°C.
- General dosage is 1.0~6.0% on total weight of a paint.
- Room temperature storage is requested. Low temperature storage will increase its viscosity resulting in the formulation of a paste. Once it becomes inflowable, heating over 50°C regains flow property allowing further use.

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INSTRUCTION

Product’s Viscosity

The viscosity of DISPARLON AQ·870 gradually increases on storage. (Graph 1) DISPARLON AQ·870’s viscosity depends on the temperature. For better handling, storage at around 25 degrees C is recommended. (Graph 2)

Flow Property

Low temperature storage at temperatures below 10°C may increase the viscosity of DISPARLON AQ·870 reducing its flow properties causing it to become a paste. The paste may change paint properties and affect the formula.

Before Incorporation

In case DISPARLON AQ·870 becomes paste, please heat it to 50°C for 24 hours to re-liquefy. DISPARLON AQ·870 will re-liquefy once it cools from 50°C to room temperature.

Distributed by:
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