DeCAL 1203HC

General Purpose Synthetic Thickener for Water Based Systems.

DeCAL 1203HC is a highly efficiency anionic liquid polymer dispersion in a non-aqueous carrier used as a general-purpose thickener giving short flow rheology across a wide pH range.

DeCAL 1203HC is provided in a highly concentrated form so providing good viscosity at low concentrations.

DeCAL 1203HC is another high performance product, complimenting the DeCAL 1200 range of liquid dispersion type thickeners.

1. Typical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White emulsion</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1000-4000cPs</td>
</tr>
<tr>
<td>Polymer Charge</td>
<td>Anionic</td>
</tr>
<tr>
<td>Rheology</td>
<td>Thixotropic</td>
</tr>
<tr>
<td>pH 1% solution</td>
<td>5.5-6.5</td>
</tr>
</tbody>
</table>

2. Application:

DeCAL 1203HC can be used as a thickener and rheology modifier for many aqueous adhesive, paint and coating compositions. DeCAL 1203HC is especially suited to adhesives formulations whereby maximum water resistance is required.

DeCAL 1203HC is effective over the pH range 4-11.
3. Incorporation:

**DeCAL 1203HC** should be added directly to the coating mix with high efficiency mixing in order to avoid localised thickening. If necessary dilution with the carrier oil can aid addition.

**DeCAL 1203HC** will generally thicken quite rapidly, but the rate of activation is dependent upon temperature, speed of mixing and medium to be thickened.

**DeCAL 1203HC** functions most effectively as a thickening agent under mildly alkaline conditions however **DeCAL 1203HC** is also active over the whole pH range (pH 4.0 - 11.0). In order to obtain optimum performance it is recommended that the pH of the coating is adjusted with ammonia (25%) or another suitable alkali.

4. Safety & Handling:

**DeCAL 1203HC** should be handled in accordance with good industrial practice. Detailed information is provided in the Safety Data Sheet.

5. Storage:

**DeCAL 1203HC** is freeze thaw stable, however it is recommended to store the product at temperatures above 5°C to enable easy handling of the product.

**DeCAL 1203HC** is stable for more than 1 year at 20°C in closed containers.

It is quite normal for **DeCAL 1203HC** to exhibit some slight phase separation on prolonged storage. To maintain optimal performance it is therefore recommended that **DeCAL 1203HC** is mixed thoroughly every 2 months.

We hope this information will be of value and if necessary we will be glad to offer additional technical advice. Please note that all our information is given in good faith, we can assume no responsibility for any liability incurred. Data and results should be confirmed by the Buyer by testing the product under its intended conditions of use.

Version 0.1   13.09.13