HIRESOL 852

Urethane Thickener

HIRESOL 852 is Nonionic Urethane associative thickener (HEUR) designed for thickening of water base coatings.

HIRESOL 852 shows a very good balance of low and high shear viscosity.

HIRESOL 852 can be used in combination with a high shear HIRESOL 200/180 to reach a desired balance of high or low shear viscosity in various paint formulations.

Main Advantages

◇ Good paint flow and Levelling.
◇ High gloss development.
◇ Excellent viscosity stability for long term store.
◇ better balance of sag/flow
◇ High film build and better applied hiding.
◇ Excellent Spatter resistance.
◇ Excellent water and alkali resistance.
◇ Resistance to Microbe and it's Enzyme
◇ Low- medium shear viscosity thickener.

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Slightly hazy viscous liquid</td>
</tr>
<tr>
<td>Solid Content</td>
<td>24 - 26%</td>
</tr>
<tr>
<td>Volatile component</td>
<td>Water/BDG(80/20)</td>
</tr>
<tr>
<td>Specific Gravity at 25°C</td>
<td>1.032-1.036</td>
</tr>
<tr>
<td>Viscosity at 25°C</td>
<td>5,500 cPs max</td>
</tr>
<tr>
<td>pH</td>
<td>5 - 8</td>
</tr>
<tr>
<td>Ionic Charge</td>
<td>Nonionic</td>
</tr>
</tbody>
</table>

Revision Date: 05/20/2014
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Application and Recommended Levels
HIRESOL 852 is designed as an "associative thickener" which builds up and stabilizes viscosity by forming a network between polyurethane, binder molecules and pigment particles. HIRESOL 852 can be used alone or in combination with other high shear HIRESOL thickeners as well as with further thickener technologies. The recommended dosage rate is 0.2 – 2.0 % of HIRESOL 852 as supplied on total formulation, depending on the pigmentation, kind of binder, emulsifier used and co-solvent.

Safety and Handling
HIRESOL 852 is slightly irritating to the skin and eyes. Avoid contact with skin and eye. When handling wear impervious rubber gloves and goggles/Face mask.

For handling/operation where possible contact may occur, a safety shower and eye wash station/facility should be available. Further detailed information can be found in the MSDS sheet. Store in closed container at 5°C - 40°C.

Packing
200KGs Plastic Drum

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When handling these products, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note
The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.