AQUATIX 8421

Rheology Modifying Wax Emulsion to Improve Orientation of Effect Pigments in Water-borne Paint Systems

The shift from solvent- to water-borne coatings called for wax additives that unfold their effects in aqueous systems. The first generation met these expectations but showed no impact on the rheological properties of coatings. The result was, quite often, an insufficient effect pigment orientation which is, after all, a key criterion for this type of paint system.

Therefore BYK developed a new wax emulsion that controls the rheology of effect pigment coatings and consequently delivers an excellent optical performance. The action of AQUATIX 8421 is so powerful that no extra rheology modifier is needed.

Your benefits
- First rheology modifying wax additive for water-borne coatings
- No additional rheology modifier necessary
- Improves orientation (flip flop) of effect pigments
- Reduces cloudiness/mottling
- “Ready to use” – no pre-dilution required
- Easy to incorporate – only low shear forces needed

Excellent Optical Performance with AQUATIX 8421

![Figure 1](image1.png)
Fact Sheet L-XS 19

Compared with Standard Rheology Modifiers AQUATIX 8421 Shows Best Property Profile

<table>
<thead>
<tr>
<th></th>
<th>Acrylate thickeners</th>
<th>PU thickeners</th>
<th>Clays</th>
<th>Polyamides</th>
<th>AQUATIX 8421</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handling/incorporation</td>
<td>□</td>
<td>□</td>
<td>–</td>
<td>–</td>
<td>■</td>
</tr>
<tr>
<td>Sensitive to pH, polar solvents, wetting and dispersing additives</td>
<td>□</td>
<td>–</td>
<td>–</td>
<td>■</td>
<td>□</td>
</tr>
<tr>
<td>Resin compatibility (AC, PU)</td>
<td>□</td>
<td>□</td>
<td>–</td>
<td>–</td>
<td>□</td>
</tr>
<tr>
<td>Effect pigment orientation</td>
<td>□</td>
<td>–</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

■ good □ moderate – not acceptable

figure 2

Due to the Liquid Delivery Form AQUATIX 8421 is Ready to Use and Easy to Incorporate

Polyamide Clay AQUATIX 8421

figure 3

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