Redicote® E-5

Emulsifier for cationic quick-set bitumen emulsions for quick-traffic slurry and micro surfacing

Benefits and features

- **Small particle size:**
  Emulsions produced using Redicote E-5 have exceptionally small particle size suitable for prime coats and dust control

- **Easy handling:**
  The low viscosity, low pour point and water solubility of Redicote E-5 makes it easy to use

- **Co-emulsifier:**
  Redicote E-5 is a versatile co-emulsifier used to improve the quality and mixing behavior of cationic medium-setting emulsions

- **No need for acid:**
  No acid is required for soap preparation. The neutral pH of the emulsion is preferred in applications like tack coats for concrete

- **No APEs:**
  The product does not contain alkylphenolethoxylates

Dosage

<table>
<thead>
<tr>
<th></th>
<th>Tack, prime and dust oil emulsions</th>
<th>pH 2-7 hydrochloric acid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.8-1.5%</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Cationic medium set emulsion</th>
<th>pH 2-4 hydrochloric acid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.2-0.3%</td>
<td></td>
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</table>

Product is used together with 0.15-0.25% conventional emulsifier like Redicote E-4819

Specification

<table>
<thead>
<tr>
<th></th>
<th>Activity, %</th>
<th>pH (10% in water)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>48-52</td>
<td>6-9</td>
</tr>
</tbody>
</table>

Physical properties

<table>
<thead>
<tr>
<th></th>
<th>Appearance at 25°C (77°F)</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point, °C</td>
<td>16 (61°F)</td>
<td></td>
</tr>
<tr>
<td>Pour point, °C</td>
<td>&lt; -10 (&lt;14°F)</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>50</th>
<th>68</th>
<th>86</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density, g/cc</td>
<td>0.88</td>
<td>0.88</td>
<td>0.87</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Density, lbs/U.S. gal</td>
<td>7.34</td>
<td>7.27</td>
<td>7.22</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity, mPa s (cP)</td>
<td>40</td>
<td>26</td>
<td>15</td>
<td></td>
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</tbody>
</table>

Physical properties are typical data based on our own measurements or derived from the literature. They do not constitute part of the delivery specification.

Storage and handling

Redicote E-5 contains 2-propanol, keep away from sources of ignition. Redicote E-5 contains water and chloride ion and 316 and 317L stainless steels or glass or polymer lined tanks are recommended. Bulk storage need not be heated. Redicote E-5 contains quaternary amines and may cause severe irritation or burns to skin and eyes. Protective goggles and gloves must be worn when handling this product. For further information consult the Safety Data Sheet.
About Nouryon
We are a global specialty chemicals leader. Markets worldwide rely on our essential chemistry in the manufacture of everyday products such as paper, plastics, building materials, food, pharmaceuticals, and personal care items. Building on our nearly 400-year history, the dedication of our 10,000 employees, and our shared commitment to business growth, strong financial performance, safety, sustainability, and innovation, we have established a world-class business and built strong partnerships with our customers.
We operate in over 80 countries around the world and our portfolio of industry-leading brands includes Eka, Dissolvine, Trigonox, and Berol.

For more information visit nouryon.com.

Packaging information
Redicote E-5 is available in bulk shipment, or in tight head lined steel drums of 390 lbs (177 kg) net weight.

Notes
Versions of this product with high flash point are available as Redicote E-605 (Americas market) or Arquad T/50HF (EMEIA market).

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For more information and sample formulations contact us at asphalt@nouryon.com.

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