ArrTekk® 1285
Cationic (+) Micro-Surfacing Emulsifier
Chemistry for Extended Micro-Surfacing Life Cycle and Fast Traffic Return

ArrTekk 1285 is an asphalt emulsifier chemical used to produce high-performing micro-surfacing emulsions conforming to typical specifications, including the International Slurry Surfacing Association’s (ISSA) A143: Recommended Performance Guideline For Micro-Surfacing. ArrTekk 1285 is also used to produce fog seal emulsions that break and cure faster than typical fog seals.

A preventative maintenance application, micro-surfacing provides an aesthetically pleasing skid-resistant surface that restores pavement profile and seals the underlying pavement, protecting it from further deterioration.

**Applications:** Micro-Surfacing  Fast-Breaking Fog Seal

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**Features and Benefits**

**Better Micro-Surfacing Life Cycle Duration**
Stronger asphalt-to-aggregate adhesion provides less raveling and lower 6-day Wet-Track (WTAT) loss for greater durability.

**Faster Micro-Surfacing Traffic Return Time in Cool Conditions and Night Time Paving**
Easy control of chemical break in cooler weather and at night for sooner traffic return and greater production rates.

**Faster Fog Seal Traffic Return Time**
Emulsions break and cure faster for sooner traffic return and reduced vehicular tracking of fog seal.

**Better Emulsion Stability**
Smaller emulsion particle size and increased pumping shear resistance for greater stability.

**Easy to Handle**
Lower viscosity and easy handling at temperatures above 90°F (32°C)

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**Compatibility**

**Asphalt**
 Easily emulsify all asphalt types including paraffin-rich and styrene-butadiene-styrene (SBS) modified.

**Polymer Modifiers**
Compatible with styrene-butadiene rubber (SBR) and natural latexes.

**Aggregates**
Compatible with both moderately reactive and less reactive aggregates of various types, including granite, diabase, trap rock, basalt, quartzite, gneiss, chert, limestone, sandstone and slag.

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**Usage Recommendations**

<table>
<thead>
<tr>
<th>Type</th>
<th>ArrTekk 1285, % bwe</th>
<th>Hydrochloric Acid (HCl)</th>
<th>SBR or Natural Latex, % bwe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro-Surfacing</td>
<td>1.2 – 2.0</td>
<td>To soap pH of 1.4 – 2.0</td>
<td>3.0 – 3.5</td>
</tr>
<tr>
<td>Fast-Breaking Fog Seal</td>
<td>0.7 – 0.9</td>
<td>To soap pH of 1.4 – 1.8</td>
<td></td>
</tr>
</tbody>
</table>

Typical total residue of micro-surfacing emulsion is 62 – 65%. Typical total residue of fog seal emulsion is 60 – 62%. Percentages are by weight of emulsion (bwe).

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**Use ArrTekk 1285 When You Need:**

- Micro-surfacing that is more durable and lasts longer
- Faster micro-surfacing traffic return time
- Faster fog seal traffic return time
- Improved emulsion stability

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Road Science®
Division of ArrMaz

6502 South Yale Avenue, Tulsa, OK 74136 | 918-960-3800    roadscience.net
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Availability

ArrTekk 1285 is available for shipment in bulk by rail car and tank truck. Packaged quantities are available in 275 gal/1,041 L IBC totes (2,200 lb/997.9 kg net weight) and 55 gal/208 L metal drums (420/190.5 kg net weight).

Physical Characteristics

<table>
<thead>
<tr>
<th>Property:</th>
<th>Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance, 77°F (25°C)</td>
<td>Dark-Colored Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Amine</td>
</tr>
<tr>
<td>Density, 77°F (25°C)</td>
<td>7.97 lb/gal (0.96 kg/L)</td>
</tr>
<tr>
<td>Viscosity, 77°F (25°C)</td>
<td>1,600 cP</td>
</tr>
<tr>
<td>Pour Point</td>
<td>&lt; 50°F (10°C)</td>
</tr>
<tr>
<td>TSCA Inventory</td>
<td>Listed</td>
</tr>
<tr>
<td>DSL Inventory</td>
<td>Listed</td>
</tr>
<tr>
<td>C.A.S. Number</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

The density and viscosity data reported are typical and not specifications. Typical ranges for density and viscosity values are ± 2% and ± 20%.

Handling and Storage

Always handle ArrTekk products in accordance with Safety Data Sheet (SDS) and proper safety procedures. Avoid product contamination with other materials. Do not heat product in excess of 140°F (60°C) for prolonged periods. Recommended product handling temperature range is 90 – 115°F (32 – 46°C).

Technical Support

To request additional product information, contact your regional Road Science representative. You can also contact us at 918-960-3800 or customerservice@roadscience.net, or visit our website at www.roadscience.net.

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