ArrTekk® 1107
Cationic (+) Quick-Set Slurry Seal Emulsifier
Chemistry for Extended Mixing Time with Difficult Aggregates

ArrTekk 1107 is an asphalt emulsifier chemical used to produce cationic quick-set (CQS) slurry seal emulsions conforming to typical specifications, including the International Slurry Surfacing Association’s (ISSA) A105: Recommended Performance Guideline For Emulsified Asphalt Slurry Seal.

A preventative maintenance application, slurry seal provides an aesthetically pleasing skid-resistant surface that seals the underlying pavement, protecting it from further deterioration.

**Applications:** CQS Slurry Seal

**Features and Benefits**

**Better Mix Control**
Provides extended mixing time with the most reactive aggregates even while paving in high temperature, high stress conditions

**Faster Traffic Return**
Quick setting and quick curing times for faster traffic return

**Better Emulsion Stability**
Emulsion remains sieve and pump stable for several weeks after production

**Compatibility**

**Asphalt**
Easily emulsify all asphalt types including paraffin-rich

**Polymer Modifiers**
Compatible with styrene-butadiene rubber (SBR) latex

**Aggregates**
Compatible with both very reactive and moderately reactive aggregates of various types, including granite, gneiss, trap rock, diabase and basalt

**Usage Recommendations**

**Typical Emulsion Formulation:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArrTekk 1107</td>
<td>2.0 – 2.5%</td>
</tr>
<tr>
<td>Hydrochloric Acid (HCl)</td>
<td>To soap pH of 1.4 – 2.0</td>
</tr>
<tr>
<td>SBR Latex</td>
<td>0.0 – 2.0%</td>
</tr>
</tbody>
</table>

Typical total residue of emulsion is 60 – 63%. Percentages are by weight of emulsion (bwe).

Use ArrTekk 1107 When You Need:

- Longer slurry mixing time and improved field workability
- Faster curing slurry seal
- Emulsion that remains stable and does not fall apart or need re-milled after being stored for several weeks

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

ArrTekk 1107 is available for shipment in bulk by rail car and tank truck. Packaged quantities are available in 275 gal/1,041 L IBC totes (2,100 lb/952.5 kg net weight) and 55 gal/208 L metal drums (410 lb/186.0 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>Brown Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Amine</td>
</tr>
<tr>
<td>Density, 77°F (25°C)</td>
<td>8.08 lb/gal (0.97 kg/L)</td>
</tr>
<tr>
<td>Viscosity, 77°F (25°C)</td>
<td>2,700 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>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 storage and handling temperature range is 100-140°F (38-60°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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