ArrTekk® 815
Cationic (+) Recycling Emulsifier
Chemistry for Easier Constructability and Quicker Traffic Return

ArrTekk 815 is an asphalt emulsifier chemical used to produce high-performing Cold-in-Place (CIR), Cold Central Plant Recycling (CCPR) and Full-Depth Reclamation (FDR) emulsions conforming to performance-based specifications that require ravel resistance, quick early strength development and resistance to moisture damage.

CIR, CCPR and FDR are common asphalt pavement rehabilitation techniques, all of which consist of structural enhancements that extend the service life and/or improve the load carrying capacity of the existing pavement.

Applications:  CIR  FDR  CCPR

Features and Benefits:

Easier Constructability
Avoids premature emulsion breakage and stickiness to equipment allowing ease of pick up and laydown with CIR machinery

Stockpiled plant-mixed material remains workable up to a few days after mixing

Better Durability Soon After Compaction
Resists raveling and weather damage only a few hours after compaction enabling quicker traffic return without damage to recycled roadway

Better Durability Long After Compaction
Moisture damage protection offers better quality pavement service condition and longer life cycle

Compatibility:

Asphalt
Easily emulsify all asphalt types including paraffin-rich and SBS-modified

Polymer Modifiers
Compatible with SBS, SBR and natural latexes

Aggregates
Easily mixes and is compatible with RAP, limestone, granite and most other types of aggregate and granular base materials, even when damp and/or dusty

Usage Recommendations:

<table>
<thead>
<tr>
<th>Typical Formulation:</th>
<th>ArrTekk 815</th>
<th>Hydrochloric Acid (HCl)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CIR, CCPR</strong></td>
<td>1.80 – 2.20%</td>
<td>To soap pH of 1.8 – 2.2</td>
</tr>
<tr>
<td><strong>FDR</strong></td>
<td>1.60 – 1.80%</td>
<td>To soap pH of 1.8 – 2.2</td>
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</tbody>
</table>

Typical total residue of emulsion is 60 – 65%. Percentages are by weight of emulsion.

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Use ArrTekk 815 When You Need an Emulsion for:

- Easier and faster CIR construction
- Faster and more predictable traffic return time to recycled roadway
- Protection against ravel and weather damage to newly constructed CIR, CCPR, FDR

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Road Science®
Division of Armaflex

6502 South Yale Avenue, Tulsa, OK 74136  |  918-960-3800  | www.roadscience.net
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**Availability:**
ArrTekk 815 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 (420 lb/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>Brown Viscous Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Amine</td>
</tr>
<tr>
<td>Density, 77°F (25°C)</td>
<td>7.98 lbs/gal (0.96 kg/L)</td>
</tr>
<tr>
<td>Viscosity, 110°F (43°C)</td>
<td>400 cP</td>
</tr>
<tr>
<td>Pour Point</td>
<td>&lt;77°F (25°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 110 – 140 °F (43 – 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](http://www.roadscience.net).