Storage and Handling of Asphalt Emulsion

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What is an Asphalt Emulsion?

- An asphalt emulsion is performance grade asphalt suspended in water using acid and surfactant.
- Emulsion is made from varying types of performance grade asphalts.
- Emulsion is used in all highway maintenance applications.
How Is An Emulsion Made?

- Asphalt, water, acid and a surfactant are combined using a colloid mill.
- All of these ingredients are combined at the mill head which shears them into micron sized particles and the finished product, asphalt emulsion, is then pumped out to storage tanks.
# Types of Emulsion

<table>
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<tr>
<th>Type</th>
<th>Use</th>
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<tbody>
<tr>
<td>CRS-1</td>
<td>Tack Coat</td>
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<tr>
<td>CRS-1M</td>
<td>Tack Coat For THMACO</td>
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<td>CRS-2, CRS-2L</td>
<td>Chip Seals, Tack Coat</td>
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<td>CQS-1h</td>
<td>Slurry Seals, Tack Coat</td>
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<td>CQS-1hLM</td>
<td>Microsurfacing</td>
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<td>CSS-1h</td>
<td>Tack Coat</td>
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<td>NTCQS-1hM</td>
<td>Non-Tracking Tack Coat</td>
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<tr>
<td>Engineered Emulsion</td>
<td>Cold In Place Recycling</td>
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<td>Central Plant Recycling</td>
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Asphalt Emulsion Storage

How Do You Store Your Emulsion?
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How Do You Store Your Emulsion?
Handling Emulsion

What You Shouldn’t Do

- Do not heat and cool repeatedly.
- Do not constantly pump.
- Do not pump an emulsion cold.
- Do not allow an emulsion to freeze.
- Do not overuse diesel fuel for cleanout.
- Do not add water if used for tack.
Successful Application

By storing and handling these materials correctly you insure proper application and better bonding.