Chapter 12: Liquid Asphalt

Liquefaction Methods

- Heating
- Blending with petroleum solvents
- Emulsifying with water
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Drum Mix Plant

CUTBACK ASPHALT

Asphalt Cement + Solvent

Gasoline
Kerosene
Fuel Oil

Rapid Cure Medium Cure Slow Cure
### VOC Losses

<table>
<thead>
<tr>
<th></th>
<th>Solvent Loss</th>
<th>Curing Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rapid cure</td>
<td>80%</td>
<td>2-3 hours</td>
</tr>
<tr>
<td>Medium cure</td>
<td>70%</td>
<td>2-3 days</td>
</tr>
<tr>
<td>Slow cure</td>
<td>25%</td>
<td>~2-3 weeks</td>
</tr>
</tbody>
</table>
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Emission Regulation

*RACT recommendation:* substitute emulsified asphalt for cutback asphalt

Exceptions:
- When cutback asphalt is applied in cold weather (<50°F).
- When emulsified asphalt is stored for longer than a month.
- When cutback asphalt is used as a prime coat.
- When it can be demonstrated that there are no VOC emissions from the cutback asphalt.