Improving Shop Efficiency with Coating Selection
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• Shops more particular about coatings and how they impact shop throughput.

• Shops are exploring alternatives to improve efficiency and productivity.
TAKE A NUMBER
Improving Shop Efficiency with Coating Selection

- Lining capacity at shops is tight.

- Car Owners and Shippers need the use of their rail assets and don’t want them tied up in shops.

- Being told “No Room!” for work that slows production.
“The most significant impact in reducing coating application costs and throughput times comes from tank car lining applications.”

From article in JCPL by Maria Betti from GATX
Improving Shop Efficiency with Coating Selection

Choose an alternate coating type when possible and potentially cut paint shop throughput time up to 80% while reducing coating costs!

Win/Win!
## Improving Shop Efficiency with Coating Selection

<table>
<thead>
<tr>
<th></th>
<th>High Bake</th>
<th>Low Bake</th>
<th>No Bake</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemically Resistant</strong></td>
<td>5-8</td>
<td>8-15</td>
<td>12-30</td>
</tr>
<tr>
<td><strong>DFT MILS</strong></td>
<td>2-3</td>
<td>1-2</td>
<td>1</td>
</tr>
<tr>
<td><strong>DAYS</strong></td>
<td>3-5</td>
<td>2-3</td>
<td>1-2</td>
</tr>
<tr>
<td><strong>ADVANTAGES</strong></td>
<td>Resistant to Exceptional Range of Products</td>
<td>Resistant to a Broad Range of Products</td>
<td>Resistant to a Broad Range of Products</td>
</tr>
<tr>
<td></td>
<td>Air Cure Capable</td>
<td>Heat cure can increase cross link</td>
<td>Air Cure</td>
</tr>
<tr>
<td><strong>DISADVANTAGES</strong></td>
<td>Labor Intensive</td>
<td>Labor Intensive compared to no bake.</td>
<td>Short pot life.</td>
</tr>
<tr>
<td></td>
<td>Requires heat to cure.</td>
<td>May require final bake.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Final cure required, tank temp 375°F to 400°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>VOC</strong></td>
<td></td>
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</tbody>
</table>
High Bake Technology provides most versatility but at a cost. Check with your coating supplier to be sure your commodity is resistant and compatible with Low Bake or No Bake solutions.
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Low Bake & No Bake Coatings Cargo Compatibility

Crude Oil  Urea Ammonium Nitrate
Gasoline  Acetone
Palm Oil  Ammonia Solutions, 28%
Methanol  Butyl Ether
Soybean Oil  Caustic Soda, 50%
Molasses  EDC
Styrene Monomer  Fatty Acid
Xylene  Heptanoic Acid
Sulphuric Acid  Methyl Ethyl Ketone
Ethylene Dichloride  Potassium Hydroxide, 50%
Sunflower Oil  Toluene
Benzene  Trichloroethylene
VAM
Video Here
WELCOME
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