Mother Nature’s Answer to UV Coatings

Presenter
Scott Miller
BCM Inks USA, Inc.
National Sales/Technical Director
About BCM Inks USA, Inc.

- Manufacturer of water-based flexographic inks and coatings for the direct print corrugated market.

- Established in 1988 – Family owned and operated.

- Headquartered in Cincinnati, Ohio USA.
  - 2nd Manufacturing – Monterrey, Mexico
  - Partnership in Argentina
• Water-based OPV developed for the corrugated print market
• Cures with IR dryers
• Alternative to UV coatings
• Higher gloss levels than traditional water-based coatings
• Requires no special handling or waste disposal
• Excellent rub resistance
• High slide angle
Water-based Request

Coatings with higher gloss levels!

Printers without UV capabilities were looking to achieve gloss levels similar as UV coatings.
UV Request

Eliminate safe handling or waste disposal issues!

Printers with UV capabilities were looking for a solution without sacrificing gloss.
Mother Nature provided a solution!
Located a naturally secreted product from a plant. The plant secretes a coating, to protect against loss of moisture during dry seasons. This coating is cured with heat and UV from sunlight.
Natural protectant used in the coating.

- Cured with heat from IR dryers
- Enhances gloss and protection, if UV lamps are used in conjunction with IR dryers
Comparisons - VOC’s

<table>
<thead>
<tr>
<th>Coating Type</th>
<th>VOC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard High Gloss Water-Based Coating</td>
<td>0.23%</td>
</tr>
<tr>
<td>Standard High Gloss UV Coating</td>
<td>0.00%</td>
</tr>
<tr>
<td>DuaKure™ High Gloss Coating</td>
<td>0.08%</td>
</tr>
</tbody>
</table>
Comparisons -

Gloss Level

Standard High Gloss Water-based Coating  
Standard High Gloss UV Coating

DuaKure™ on average 42.37% higher
DuaKure™ on average 29.9% lower

Note: Results may vary
<table>
<thead>
<tr>
<th>Product</th>
<th>Gloss</th>
<th>Rub</th>
<th>Slide</th>
<th>Press Speed</th>
<th>Odor</th>
<th>Price Per/Lb.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuaKure™</td>
<td>⚫</td>
<td>⚫</td>
<td>⚫</td>
<td>⚫</td>
<td>⚫</td>
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<tr>
<td>*UV Coating</td>
<td>⚫</td>
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<td>⚫</td>
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</tr>
</tbody>
</table>

* Most Commonly Purchased Product
Note: Results may vary
Markets -

- Printers with IR capabilities
  - Desire to achieve higher gloss levels

- Printers with UV and IR capabilities
  - Provide an alternative to UV (customer driven requirements)
  - Eliminate concerns about special handling or waste disposal
Thank you!

Questions?

Scott Miller
National Sales/Technical Director
BCM Inks USA, Inc.
Cell: 513-518-7564
Email: smiller@bcminks.com