IT’S GLOSSY

We think it’s time for you to try a product that’s Ultrafine!

CarbiGloss™ is THE new ultrafine carbonate for paper and board top coating. Its ultrafine particle size creates a high gloss while its slurry product form eliminates the need for pigment makedown. In addition, the coating color will have better runnability and fiber coverage.

By using different formulation strategies, the desired benefits of CarbiGloss™ can be tailored to produce optimal results for your specific applications. Sound good? Read on...

Advantages
➤ Improved Shade and Higher Brightness*
➤ Potential to Reduce OBA Level
➤ High Gloss
➤ Better Water Retention
➤ Potential to Reduce Thickener Level
➤ Faster Ink Setting (Offset Litho)
➤ Better Ink Hold Out (Flexo)
➤ Cost Savings
*Compared to Ultrafine Kaolin

CarbiGloss™ is a bright finely ground calcium carbonate with almost all the particles less than 1 µm in size

Cost Savings
Since the product is delivered as a slurry, it requires no pigment make down on site. This creates the ability to reduce the costs of:
➤ Energy
➤ Chemicals
➤ Maintenance
➤ Staff
➤ Waste Water Treatment

CarbiGloss™ Attributes

<table>
<thead>
<tr>
<th>Pigment</th>
<th>CarbiGloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness (ISO)</td>
<td>93.5</td>
</tr>
<tr>
<td>b* (CIE)</td>
<td>1.64</td>
</tr>
<tr>
<td>&lt;2µm (mass %)</td>
<td>99</td>
</tr>
<tr>
<td>&lt;1µm (mass %)</td>
<td>95</td>
</tr>
<tr>
<td>&lt;0.5µm (mass %)</td>
<td>71</td>
</tr>
</tbody>
</table>
In moving to a finer carbonate system such as CarbiGloss™, there is also potential to reduce thickener levels due to an increased low shear viscosity and better inherent water retention.

This is shown below in the longer time taken for coating color immobilization.
SEM images of the coating surface reveal a large number of pores on the surface which resulted in a fast ink setting rate for offset printing, as shown by the ink tack development curves.

This is also shown in the micrographs below:

**ISIT™ Ink Setting Rate Curves, showing significantly faster ink setting with CarbiGloss**

**Customer-Driven**
Imerys works actively with customers to develop new and innovative solutions to solve their technical challenges. As a global leader in white minerals, Imerys brings its unique knowledge, technology and unrivaled depth of application expertise to improve the value of our customers’ products.

**New Product Development**
Imerys is continuously creating new and better ways to transform mineral resources into high-performance, solution-driven products.

**Environmental Policy**
Imerys is committed to being a good neighbor to our environment and we take this responsibility very seriously. We have adopted the principles of Sustainable Development, which includes extensive training programs and considerable investment in environmental performance improvement.

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