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#### Lowering the gloss + Lowering the cost

Are acrylics cratering your powder productivity? Is dry-blending two powders to achieve a low gloss leaving you with mixed feelings? Then Cytec has the product line for you - the One Shot Dull Matte durable system for hydroxyalkylamide (HAA) crosslinkers such as Primid XL-552 (EMS-Chemie).

#### The Products

The Cytec resins used to obtain these dull matte systems use a similar idea that is commonly employed with polyester-urethane powder coating systems. The Powder Coating Resins business unit has developed a high and low acid functional resin pair that provides coatings with a 60 degree gloss of 5-15 when co-extruded. The low acid resin, [CRYLCOAT® E04211](#), is a 25 acid number resin that has been developed with smoothness in mind. The high acid partner, [CRYLCOAT® E04187](#), has been engineered with an eye on consistency and has been tested in the lab to verify repeatability.

#### Benefits

This system has been specifically designed to address many of the pitfalls involved with other matte systems. Benefits of this CRYLCOAT® One Shot Dull Matte system include:

**Improved burnish resistance** compared to acrylic systems - microscopically, the surface of this powder system is more consistent and even. This lessens the increase in gloss when the surface topography is altered compared to an equivalent system containing acrylic resin.

**Excellent impact resistance** - some matte systems are brittle when cured. The CRYLCOAT® matte system achieves 160 inch-pounds of impact in direct and indirect exposure.

**Good outdoor weathering** - CRYLCOAT® one shot matte formulations exhibit equivalent results in accelerated weathering tests when compared to formulations with standard polyester-HAA resin systems. Formulas based on these resins have been submitted for Florida weathering exposure.

**Lower formulation cost** and reduced probability of contamination compared to acrylic systems - by replacing the acrylic resin with more polyester, the formulation cost will be decreased. Also, the end-user does not have to worry about the extra time and expense it takes to thoroughly clean equipment that has been exposed to acrylic chemistry.

**Lower production cost and ease-of-use** compared to matte dry blends - since the resins are co-extruded, the powder producer saves on time (making one powder versus two), powder loss (an average of 5-10% extra powder is lost when blending two powders), cure temperature, and money (raw materials needed to make just one batch of powder).

**Corrosion resistance** - these formulations surpassed 500 hours of salt fog exposure. The results are consistent with standard polyester-HAA resin systems.

**Batch consistency** - Cytec has tested multiple batch combinations of each resin in the pair to verify consistent gloss.

**Formula/Batch consistency** - Cytec has also done significant work with many resin ratios, resin/crosslinker ratios, and film thicknesses to verify dull matte results over a range of conditions.

#### Samples and Availability

This material is commercially manufactured in Europe at the present time. Please ask your sales, technical service or customer service representative for samples.

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#### CYTEC on the Move - New product information for the Powder Coatings & Additives Market

Cytec has recently launched new Web pages related to the Radiation Curing Market on [www.cytec.com](http://www.cytec.com).

The new [Powders Curable Resins & Additives](#) Web pages now showcase the FULL spectrum of Cytec's product range. Furthermore, extensive information on Markets, Events, News and Literature is now easily accessible to the user.

You will discover much more content, and you but will also be able to access a **new product search engine** which helps you to find the resins and additives that meet your requirements.

Have a look at <http://www.cytec.com/powders/index.php> !

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