

Geon[™] 170 Series Organosol Resins Get Ultrafine

A leading can coating producer now provides fine-grind coatings to its customers without additional production steps and associated expense after implementing an ultrafine resin.

Situation

Vinyl dispersion resins have successfully been used to produce food and beverage can and can-end coatings for decades. These organosol coatings are used as a protective barrier, preventing interactions between beverages, foodstuffs, and the metal substrate, which helps to provide a safe canned food supply to consumers.

A leading can coatings producer has received an increasing number of requests from its customers to produce a thinner coating that performs as well as traditional versions. Like others in this industry, the producer has successfully used Geon 170-Series resins in its product line, meeting the requirement for a thinner coating by adding a sand mill process to make the vinyl organosol particles smaller.

Regrettably, the extra step adds cost to the coating production operation by extending process time and adding to operational charges. The coating producer wanted to find a way to meet customers' immediate quality and supply requirements without investing in additional sand milling equipment and adding cost to its process.

The producer turned to PolyOne for help, which led to the development and introduction of its Geon 170-UF Series product line. By using the new ultrafine resins based on Geon 170 Series resins, the producer was able to meet its customers' quality demands in a short time frame, avoiding a lengthy "pack testing" protocol typically associated with new raw material qualification.

The PolyOne Difference

Geon 170-Series products have been used successfully to produce food and beverage can and can-end coatings for years. PolyOne's new ultrafine organosol products now allow coating producers more versatility in manufacturing a coating that meets their customers' high quality performance and product delivery needs while improving manufacturing efficiency.

Geon 170-UF Series resins provide cost savings opportunities for those coating producers that currently employ sand mills to produce thinner organosol-based coatings.



By switching to the Geon 170-UF Series products, organosol coatings producers have the ability to save costs in three areas:

- Capital costs—avoid the purchase of sand milling equipment
- Manufacturing expense—reduce or eliminate extra steps of sand milling
- Process time—increase throughput by eliminating sand milling

Delivering a Value-Added Solution

By replacing traditional organosol resin with Geon 170-UF Series, producers can enhance the value of their products while reducing their costs.

- **Thinner coatings = economic and environmental benefits:** Coating producers can satisfy customer demands for reduced coating weight, gaining a competitive advantage while consuming less energy.
- **Reduced milling = lower overhead and maintenance costs:** Eliminating the sand mill step in producing ultrafine coatings may enable producers to reduce manufacturing costs by up to 12.5 cents per pound, and means that producers can also eliminate the expense of buying additional mills and maintaining them.
- **Manufacturing efficiencies = system cost savings:** Not only does the elimination of the sand mill step reduce energy and labor costs, it also improves cycle time and reduces associated waste.

Product choices often vary by region due to differences in regulatory and agency requirements, availability and other key factors. Please contact your nearest sales office for assistance in choosing the right solution for your locale.

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