

Syl-Off[®] Advantage Series provides a complete release coating ‘toolbox’ of options

The “toolbox” approach, available with *Syl-Off*[®] Advantage Series solventless silicone release coatings, gives users flexible control of cure characteristics, release profile and costs, and can enable significantly lower platinum use. Depending on system requirements and process conditions, at 20–50 ppm platinum vs. the 100 ppm or more required by conventional systems, there is no compromise in bath life, anchorage, line speed or release stability.

Syl-Off[®] Advantage Series Options

Inhibitor Choices

- EtCH
- Maleate

Component Choices

- 8 Coatings
- 5 Release Modifiers
- 3 Crosslinkers
- 2 Catalysts

Testing and performance

Pre-commercialization testing – *Syl-Off* Advantage Series coatings underwent approximately 40 days of pilot coater trials plus production-scale trials at liner customers and laminate producers, all with positive results.

Commercial use – *Syl-Off* Advantage Series coatings are being used on SCK and glassine, with trials completed on clay-coated substrates. Adhesives in commercial use include water-based acrylics and hot-melt, in both in-line and off-line processes. Further, the materials are in commercial

use on both offset gravure and five-roll smooth roll coaters, with line speeds from 100–700 meters (328–2300 feet) per minute. Dwell times vary from 1.5–3.4 seconds with exit web temperatures typically 280–340°F (140–170°C).

Exceptional cure performance – Customers have achieved exceptional cure performance, a flat release profile and a distinct cost advantage with *Syl-Off* Advantage Series coatings. Further, shelf life is greater than 1 year.

Current success

Syl-Off Advantage Series was designed to meet or exceed customer release profile requirements and only minor formulation adjustments during customer qualification phases have been required. Using the “toolbox” of options, customers have been able to quickly qualify *Syl-Off* Advantage Series products to meet their specific product specifications. The coatings are in use and generating savings for customers in Asia, Europe and North and South America, with several more customers in the final qualification phases.

For troubleshooting assistance

Contact your Dow Corning technical representative or email solutions@dowcorning.com.

For pressure sensitive product and service information

Visit www.dowcorning.com/psi. For easy future reference, bookmark the page and add it to your list of “Favorites.”

We're here to help

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Dow Corning is more than materials and more than silicones. We are also process optimizers, cost reducers, custom formulators, applications engineers, technology innovators, productivity experts, global market expanders and more.

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