



DOW CORNING

Paints, Inks and Coatings Solutions



## Dow Corning® brand Antifoams for Waterborne Inks, OPVs and Paints

Highly effective defoaming performance with a good balance of compatibility

Dow Corning has applied its deep knowledge of silicone chemistry and extensive antifoam know-how to produce a range of new defoamers that couple high levels of efficiency with low levels of defects.

### The Versatile Mainstays of Our New Waterborne Antifoam Family

These versatile, APEO-free silicone antifoams are designed for use in inks, overprint varnishes, and many types of premium industrial and architectural paints with low to medium pigment volume concentrations (PVC). They are compatible with a broad range of waterborne resins.

**Dow Corning® 108F Additive** is a siloxane-based emulsion that can deliver excellent defoaming results (Figure 1) in a wide variety of waterborne paint and ink systems. It is specifically designed for use in premium gloss applications, such as wood coatings, industrial coatings and inks, where its low tendency to cause craters or other surface defects is especially valuable. Its diluted delivery form makes it very easy to dose and use.

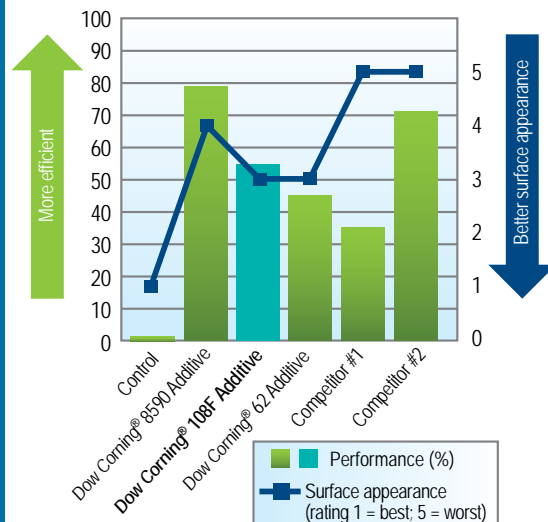
**Dow Corning® 8590 Additive** is a self-dispersible silicone antifoam compound that offers good compatibility coupled with good defoaming efficiency – even at low temperatures. The compound’s low viscosity facilitates accurate dosing and easy handling in both the laboratory and the factory. It may be added at any time during the process, from pigment grind to paint let-down. The excellent defoaming performance of *Dow Corning* 8590 Additive in flexographic ink (Figure 2) illustrates the product’s high versatility.



Advantages of the new range of *Dow Corning*® brand waterborne antifoams:

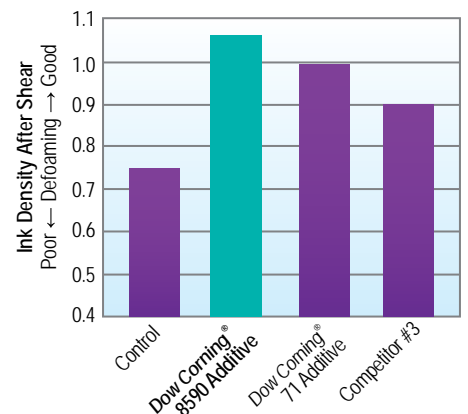
- Good antifoaming performance at low dosage
- Good balance of efficiency and compatibility
- APEO-free
- Low-VOC
- Easily dispersible compounds and emulsions

Figure 1. Defoaming performance of *Dow Corning*® 108F Additive in a waterborne acrylic system.<sup>1</sup>



<sup>1</sup>Tested at 0.2% actives in a waterborne acrylic system. Performance based on density reported after shearing 3 minutes at 2,800 rpm.

Figure 2. Defoaming performance of *Dow Corning*® 8590 Additive in flexographic ink.<sup>2</sup>



<sup>2</sup>Tested at 0.2% actives, as supplied, in a waterborne acrylic styrene flexographic blue ink. Ink density reported after shearing 3 minutes at 3,500 rpm using a dissolver blade.

## Other New Waterborne Antifoams

Other new antifoam compounds in this family have special features and benefits for specific foam-control needs:

- **Dow Corning® 8603** Additive may be recommended for more challenging foam-control problems.
- **Dow Corning® 8628** Additive is based on novel technology that allows formulators to achieve excellent defoaming performance as well as an excellent level of compatibility in select binder systems.

## PVC-Aligned Product Options to Meet a Broad Range of Foam-Control Challenges

Figure 3. For premium paints and inks.

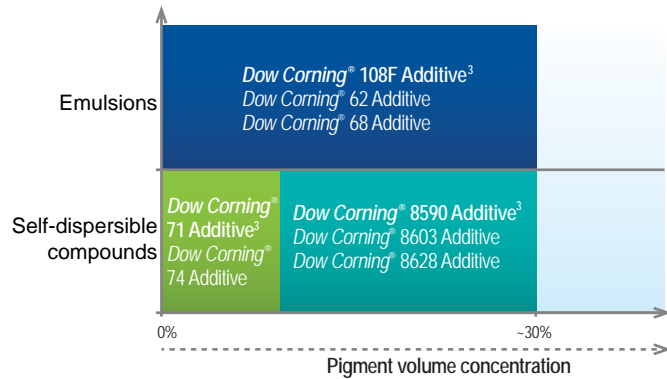


Figure 4. For architectural wall and ceiling paints.

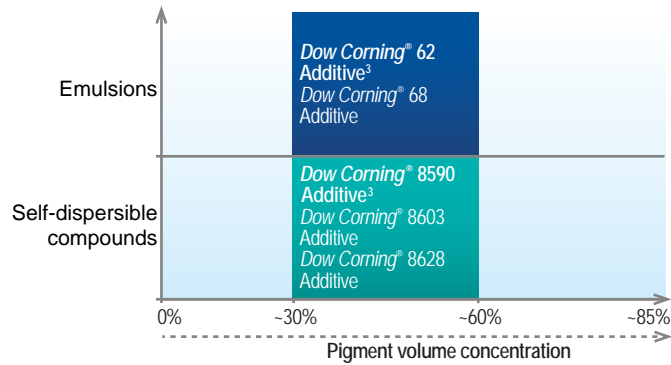
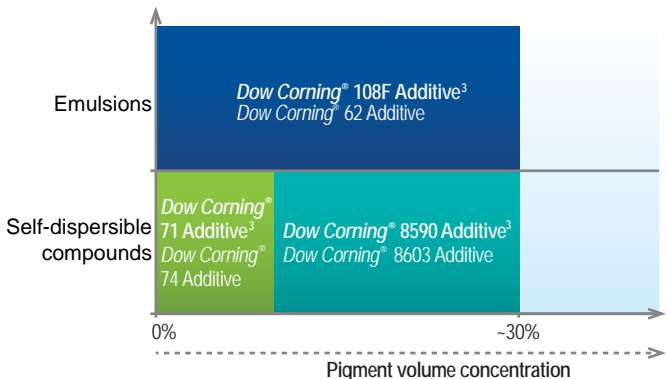


Figure 5. For indirect food contact.<sup>4</sup>



<sup>3</sup>First choice.

<sup>4</sup>Check local regulations. Visit our EH&S Portal at [dowcorning.com/EHS](http://dowcorning.com/EHS) or contact our EH&S team to obtain food contact regulatory status information, including FDA, EU, Swiss Ordinance and German BfR clearance.

## More Than Antifoams

Our innovative, silicon-based enabling technologies can help you infuse your products with high-value performance attributes that can give you a competitive advantage in the marketplace. As a leader and innovator with a long history of success in the industry, Dow Corning offers performance-enhancing coating technology platforms that are well-aligned to the needs of the increasingly competitive global coatings market.

## For More Information

To learn how our innovative coatings technology platforms can help you power up your product line, visit [dowcorning.com/powerup](http://dowcorning.com/powerup) or email us at [coatings@dowcorning.com](mailto:coatings@dowcorning.com).

Photo: AV03988

### HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT [DOWCORNING.COM](http://DOWCORNING.COM), OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

### LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

**TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

®™ Trademark of The Dow Chemical Company.

Dow Corning is a registered trademark of Dow Corning Corporation. The Corning portion of the Dow Corning trademark is a trademark of Corning Incorporated, used under license.

©2014, 2017 Dow Corning Corporation, a wholly owned subsidiary of The Dow Chemical Company. All rights reserved.

