

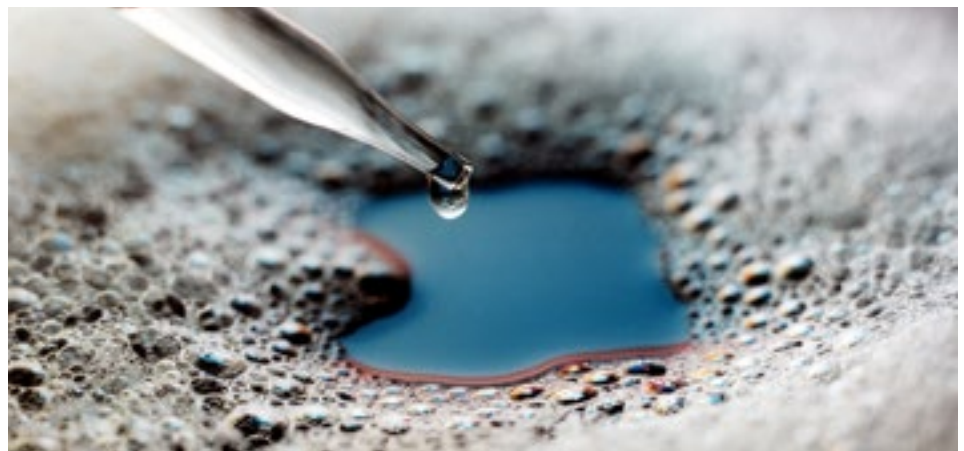


Consumer Solutions

## DOWSIL™ Antifoams for Waterborne Inks, OPVs and Paints



Highly Effective Defoaming Performance with a Good Balance of Compatibility



Dow 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.

**DOWSIL™ 108F Additive** is a siloxane-based emulsion that can deliver excellent defoaming results (Figure 1) in a wide variety of waterborne paint and ink

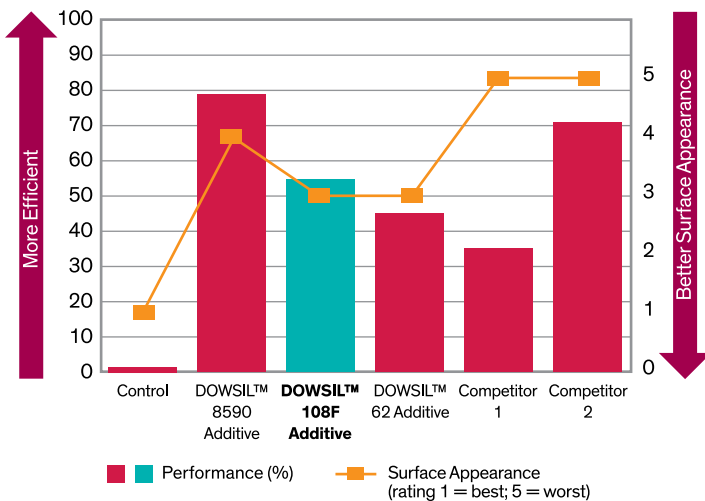
systems. It is specifically designed for use in premium gloss applications, such as wood coatings, industrial coatings and inks, where its low tendency to cause craters or other surface defects is especially valuable. Its diluted delivery form makes it very easy to dose and use.

**DOWSIL™ 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 DOWSIL™ 8590 Additive in flexographic ink (Figure 2) illustrates the product's high versatility.

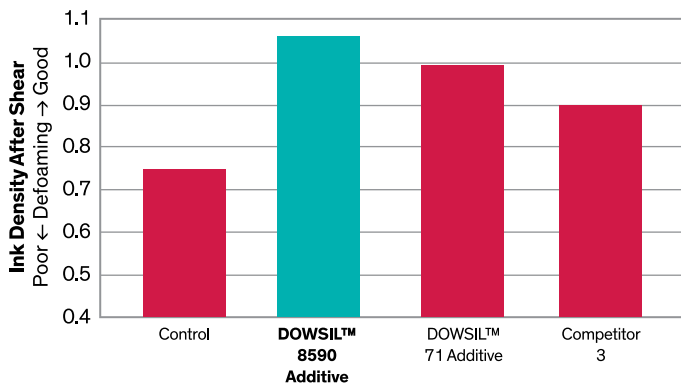
### Advantages of DOWSIL™ Waterborne Antifoams:

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

**Figure 1:** Defoaming performances of DOWSIL™ additives in a waterborne acrylic system<sup>1</sup>



**Figure 2:** Defoaming performance of DOWSIL™ 8590 Additive in flexographic ink<sup>2</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.

<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.

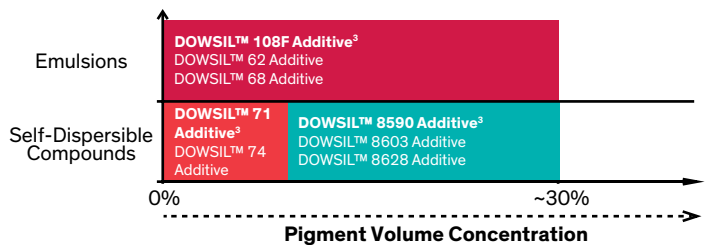
## Other New Waterborne Antifoams

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

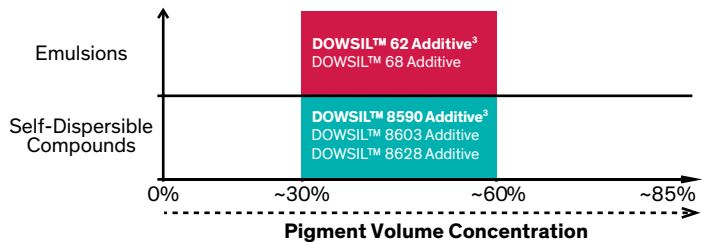
- **DOWSIL™ 8603 Additive** may be recommended for more challenging foam-control problems.
- **DOWSIL™ 8628 Additive** is based on novel technology that allows formulators to achieve excellent defoaming performance as well as an excellent level of compatibility in select binder systems.

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

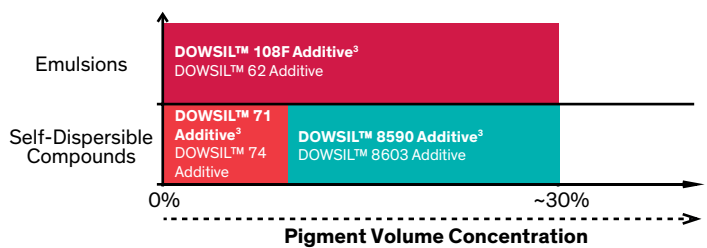
**Figure 3:** For premium paints and inks



**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 [consumer.dow.com](http://consumer.dow.com) 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 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 [consumer.dow.com](http://consumer.dow.com).

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