



Consumer Solutions

DOWSIL™ 102F Additive for Highly Efficient Foam Control in Solventborne Paints and Inks



No Noticeable Impact on Surface Appearance or Recoatability

Power Up

YOUR COATINGS



Outperforms Currently Available Products

Foam generation can cause problems with the production, filling and application of solvent-based paints, inks and coatings, particularly in high-solids formulations.

If you are seeing more defects and haze and gloss issues resulting from the addition of your foam control agents – and if you have to use several different additives to control foam in your solventborne coatings – consider DOWSIL™ 102F Additive.

Available globally, DOWSIL™ 102F Additive is a highly efficient fluorosilicone defoaming agent with a level of performance that exceeds what is possible with other fluorosilicone-based products available today.

Effective at Very Low Use Levels

The low surface tension of DOWSIL™ 102F Additive makes it a very efficient antifoam

and defoamer. Because it performs at very low concentrations, you can achieve effective foam control at very low silicone addition levels, even in high-solids formulations. Consequently, DOWSIL™ 102F Additive does not noticeably impact the surface appearance or recoatability of the applied film.

While the amount required is formulation-dependent, the typical addition level for DOWSIL™ 102F Additive is up to 0.7 percent by weight (equivalent to 50 ppm fluorosilicone).

Clear and colorless, DOWSIL™ 102F Additive does not impact the clarity of the coating. It has good compatibility with solventborne coating systems and a low tendency to cause craters. Additionally, it can be added in the let-down stage without tending to cause surface defects.

Advantages of DOWSIL™ 102F Additive:

- High-efficiency defoaming in solventborne systems
- Effective at very low use levels, even in high-solids formulations
- Does not noticeably impact surface appearance or recoatability
- Easy to use

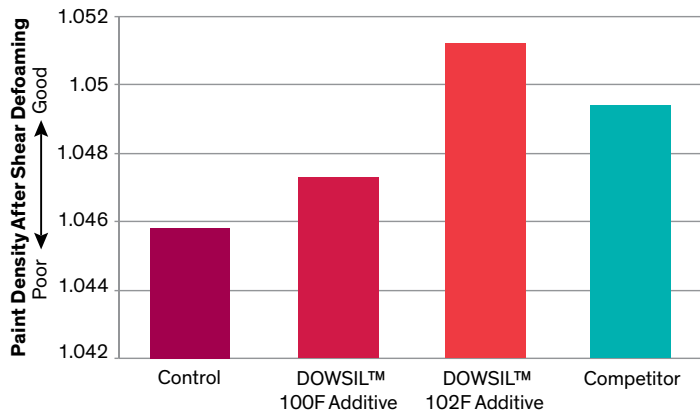
Cost-Effective and Versatile

In applications where strong antifoaming is required – such as protective coatings, wood coatings and flooring coatings – DOWSIL™ 102F Additive provides high defoaming performance in a cost-effective manner. Plus, it is suitable for multiple formulations, so you can achieve synergies across your manufacturing operations and supply chain.

Highly Effective Foam-Control Performance

Figure 1: Paint density

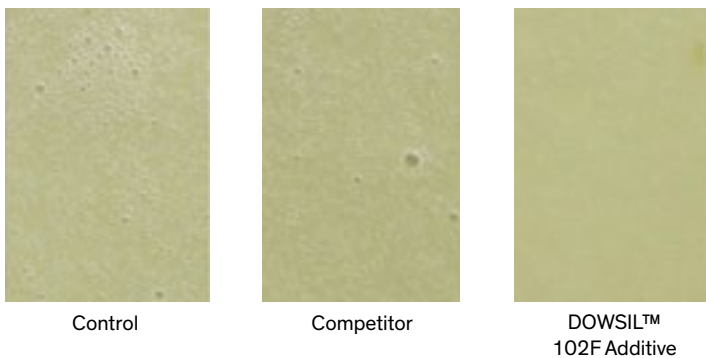
High-speed stirring test of a solventborne 2K PU wood coating with DOWSIL™ 102F Additive at 0.2 wt%, as supplied



Measurement of paint density after high-speed stirring indicates that the antifoam performance of DOWSIL™ 102F Additive is superior to that of the competitor's product.

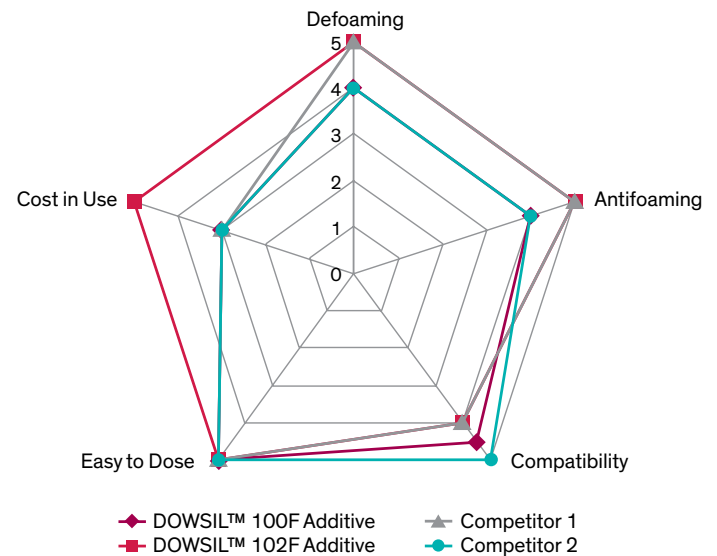
Figure 2: Surface appearance

High-speed stirring test of an industrial coating (epoxy protective base coat) with DOWSIL™ 102F Additive at 0.4 wt%, as supplied



The presence of fewer bubbles on the surface of the coating after high-speed mixing and subsequent curing indicates that DOWSIL™ 102F Additive provides more effective foam control than the competitor's product.

Figure 3: Differentiated performance



More Than Foam Control

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's performance-enhancing coating technology platforms are well-aligned to the needs of the increasingly competitive global coatings market.

For More Information

To learn how Dow's innovative coatings technology platforms can help you power up your product line, visit consumer.dow.com.

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