Technical Data Sheet

DOWSIL™ 107F Additive

Versatile silicone foam control additive for waterborne paints, inks and coatings

Features & Benefits

- Effective foam control for waterborne coating systems
- Performs at low dosages
- Low viscosity allows for easy dispersibility into waterborne paints and inks
- Suitable for formulating EU Ecolabel compliant paints and varnishes
- No impact on gloss
- May provide improved corrosion and blister resistance in metal coatings
- APEO free, low VOC

Composition

- Silicone antifoam compound with silica, 100% active

Applications

- Acrylic, styrene acrylic and VAE emulsion paint for architectural wall coatings
- Acrylic based clear wood coating varnishes
- Waterborne flexographic inks
- Acrylic overprint varnishes

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Appearance		Clear to slightly hazy
Viscosity at 25°C (77°F)	mPa	300–500
Specific gravity at 25°C (77°F)		0.99–1.03
Active content	%	100

Description

DOWSIL™ 107F Additive shows high efficiency and good compatibility in waterborne coatings and ink systems and has a low tendency to cause surface defects.

How to Use

DOWSIL™ 107F Additive can be used as defoamer for both grind and let down stages.

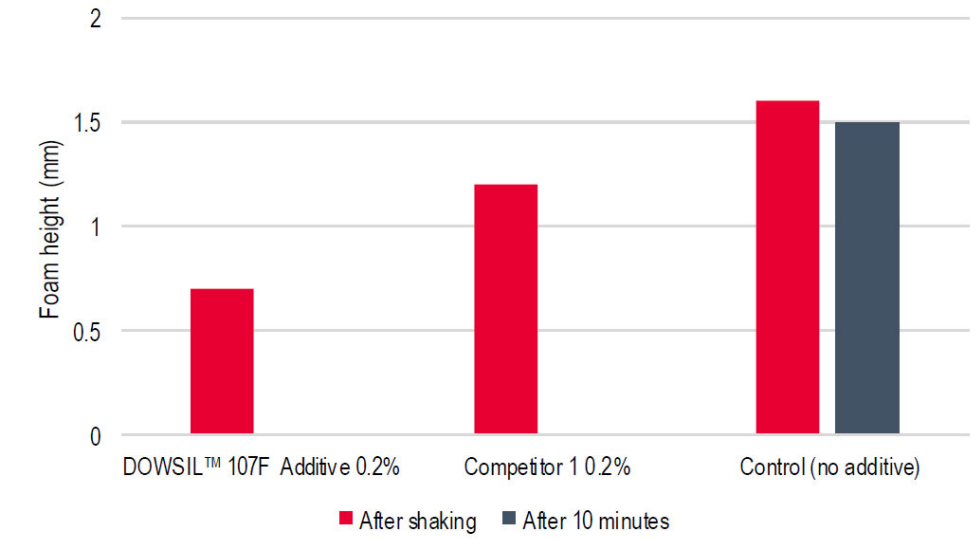
A recommended addition level of 0.1–0.5% in the total formulation can usually provide adequate defoaming performance.

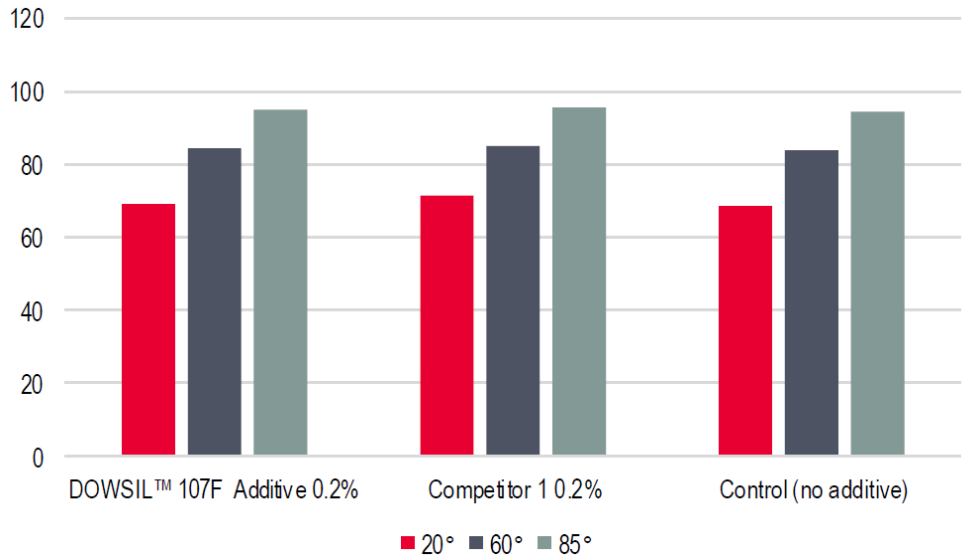
Better film appearance may be obtained by adding DOWSIL™ 107F Additive after the thickener in the Let Down Stage.

How to Use (Cont.)

DOWSIL™ 107F Additive must be mixed thoroughly before using.

For higher defoaming efficiency consider using DOWSIL™ 8590 Additive, for more sensitive applications, consider using DOWSIL™ 74 Additive.





Figures 1 and 2. DOWSIL™ 107F Additive at 0.2% weight percentage based on total formulation weight (TFW) in ROSHIELD™ 3188ER Acrylic Emulsion for clear wood coatings. Test results show better initial foam control with DOWSIL™ 107F Additive than the competitor 1 product. No surfaces defects or loss in gloss observed with the usage of DOWSIL™ 107F Additive.

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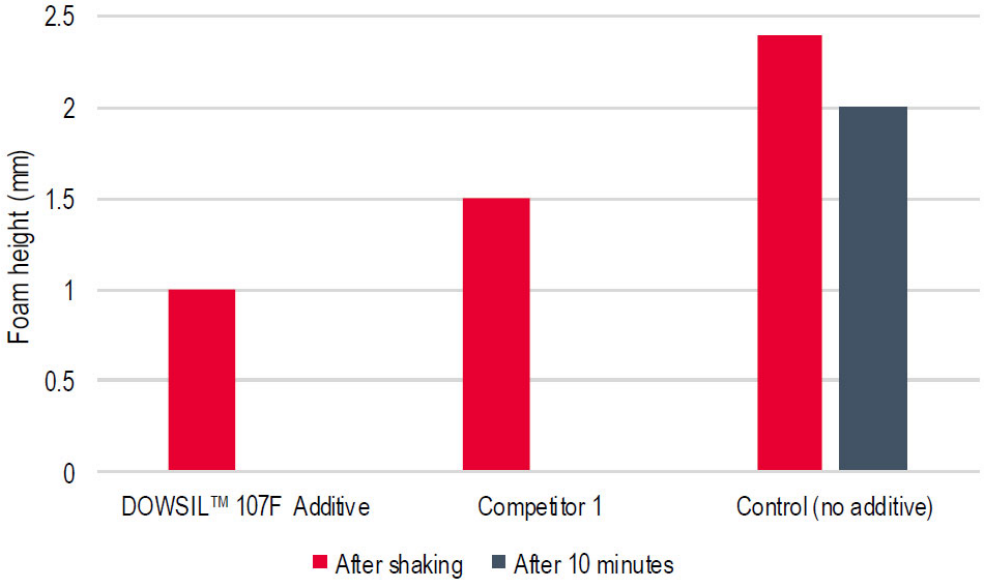
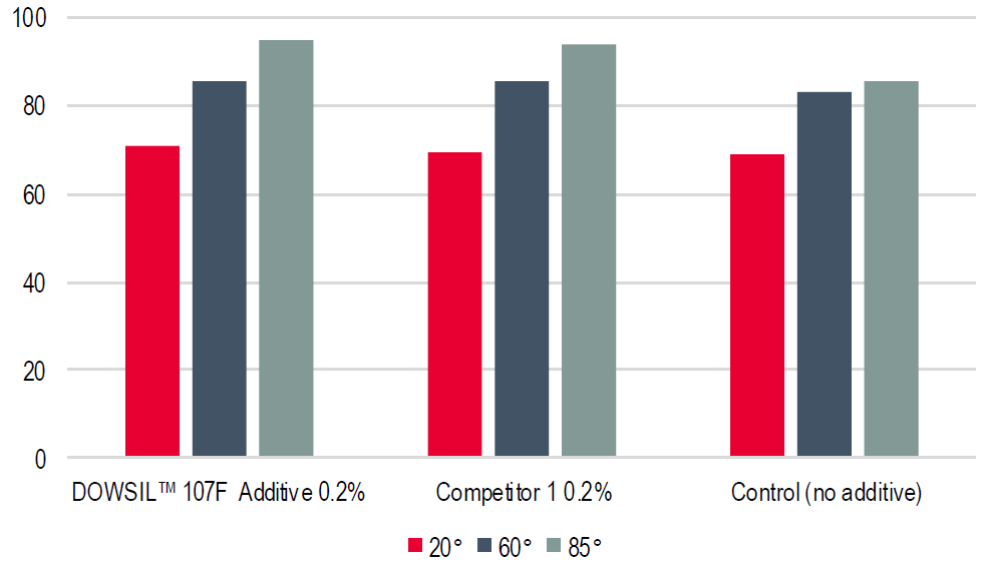
How to Use (Cont.)





Figures 3 and 4. DOWSIL™ 107F Additive at 0.2% weight percentage based on total formulation weight (TFW) in PRIMAL™ IW-3311 Acrylic Polymer for clear wood coatings. Test results show better initial foam control with DOWSIL™ 107F Additive than the competitor 1 product. No surfaces defects or loss in gloss observed with the usage of DOWSIL™ 107F Additive.

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 WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Packaging Information

This product is available in 120 ml sample bottle, 17 kg pails and 200 kg drums packages.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health and Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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