Technical Data Sheet

DOWSIL™ 102F Additive

FEATURES & BENEFITS

- Provide foam control property in solvent based coatings
- Effective at low concentration
- Good balance between effectiveness and compatibility

COMPOSITION

- 1% active in mixture of methyl ethyl ketone and n-propyl acetate

Foam control agent in solvent-based coatings

APPLICATIONS

DOWSIL™ 102F Additive has been successfully used in following applications:

- Solvent based wood coatings
- Solvent based industry coatings

TYPICAL PROPERTIES

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

Property	Unit	Result
Appearance		Clear colorless liquid, free from extraneous matter
Active content	%	0.95–1.05
Solvent		Methyl ethyl ketone and n-propyl acetate

DESCRIPTION

DOWSIL 102F Additive is highly effective foam control agent for solvent based coating systems, which offers optimal defoaming and antifoaming at very low addition levels.

It shows good compatibility in solvent based coatings and has low tendency to cause craters or impact gloss or clarity of the coatings.

Long term foam control property can be obtained with DOWSIL 102F Additive even under severe storage conditions.

HOW TO USE

DOWSIL 102F Additive is effective at low concentrations. The amount required depends on type of formulation, the solvent it contains, resin system and total system solids.

DOWSIL 102F Additive is typically added up to 0.7% by weight into the coating formulation. Characteristics may vary when used with different systems and formulations. Thorough preproduction testing is necessary to ensure expected performance.

Figure 1: DOWSIL 102F Additive at 0.2 weight % as supplied in solvent borne 2K PU wood coating. The coating was dispersed at 3000RPM for 15 minutes by dissolver blade. The paint density was checked immediately. The density data in below figure indicate that DOWSIL 102F Additive provides superior performance to competitor's product as antifoam in this coating system.

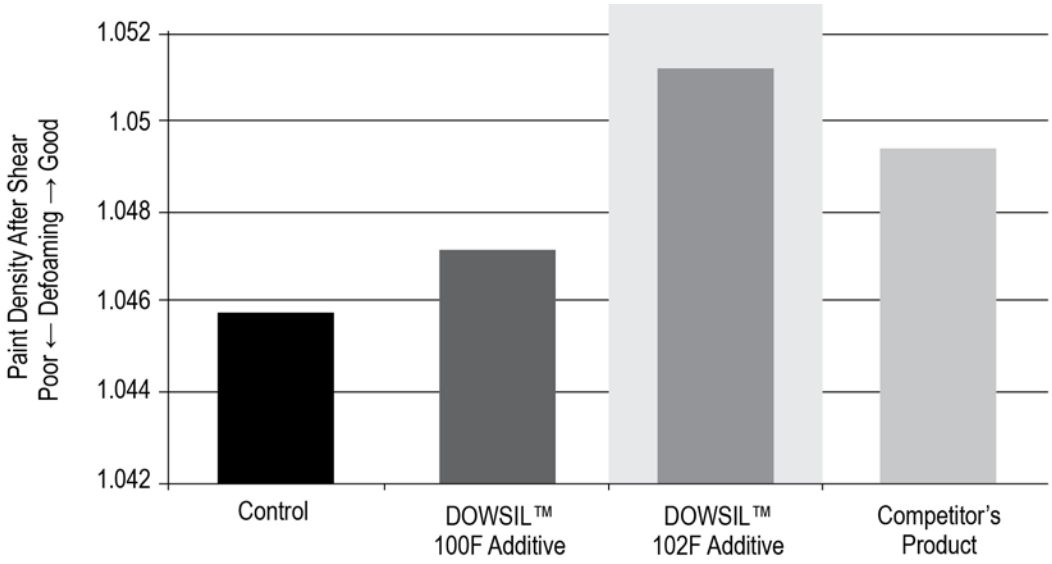
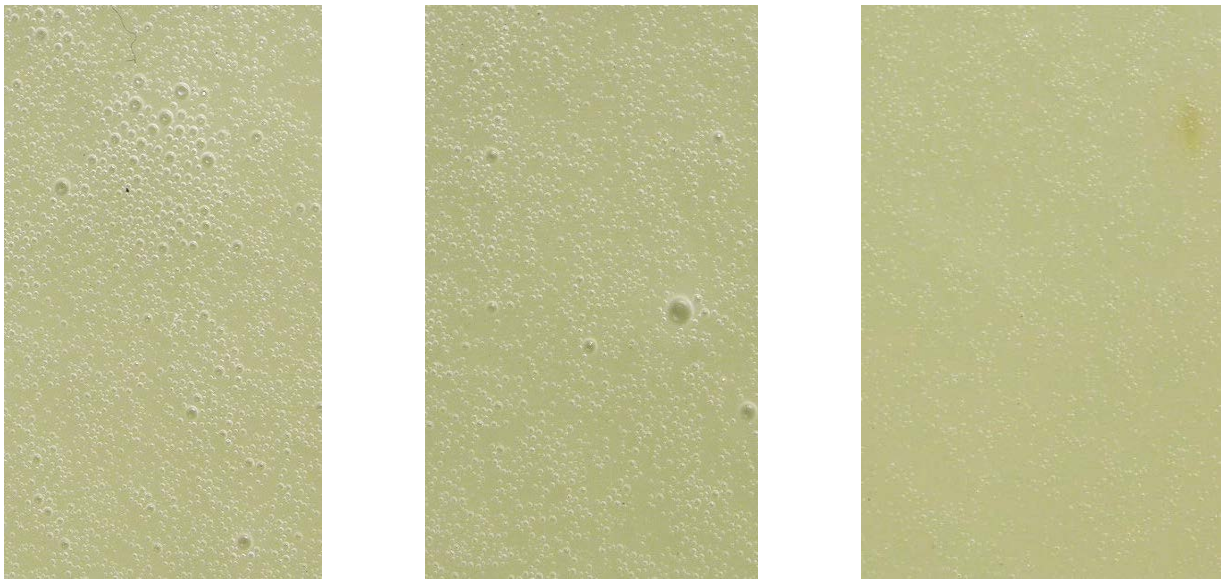


Figure 2: DOWSIL 102F Additive at 0.4 weight % as supplied in epoxy protective base coat with crosslinker and thinner inside. After shearing 15 minutes at 1500RPM with dissolver blade, pour the same quantity of paint into flat container and wait for curing. Surface appearance after curing show that DOWSIL 102F Additive is more effective to control the foam than competitive products indicated by the less bubbles left on the surface by using DOWSIL 102F Additive.



Control | Competitor's product | DOWSIL 102F Additive

UNRESTRICTED – May be shared with anyone
®™Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow
DOWSIL™ 102F Additive
© 2017 The Dow Chemical Company. All rights reserved.

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 WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored between 0 and 32°C (32 and 90°F) in the original unopened containers, this product has a usable life of 24 months from the date of production.

PACKAGING INFORMATION

This product is available in 16 kg pails and 166 kg drums.

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, www.consumer.dow.com or consult your local Dow representative.

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'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 SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

www.consumer.dow.com

®Trademark of The Dow Chemical Company