



## DOWSIL™ 8610 Additive

Silicone foam control agent for waterborne coatings

### Features & Benefits

- Effective foam control for waterborne coating systems.
- Performs at low dosages.
- No negative impact for gloss.
- Low viscosity allows for easy dispersibility into waterborne paints and inks.
- Performs over wide temperature range.

### Composition

- Silicone antifoam compound with silica.
- 100% active.

### Applications

- Acrylic emulsion paint for architectural wall coatings. Particularly effective at eliminating microfoam in roller applications.
- Acrylic styrene emulsion paint.
- Waterborne flexo gravure inks.
- Waterborne polyester acrylic coating.
- Waterborne acrylic modified alkyd coating.

### Typical Properties

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

| Property                        | Unit     | Result                          |
|---------------------------------|----------|---------------------------------|
| Appearance                      |          | Colorless to light amber liquid |
| Viscosity at 25°C (77°F)        | m Pa · s | 150–700                         |
| Specific Gravity at 25°C (77°F) |          | 0.998–1.008                     |
| Active Content                  | %        | 100                             |

### Description

DOWSIL™ 8610 Additive shows excellent defoaming performance in waterborne coatings and ink systems and has a low tendency to cause surface defects.

### How to Use

The recommended addition level of DOWSIL™ 8610 Additive is 0.05 to 1% as supplied, based on total formulation. DOWSIL™ 8610 Additive can be added directly or pre-diluted with alcohols or polyglycols.

**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 17 kg cans.

**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](http://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.

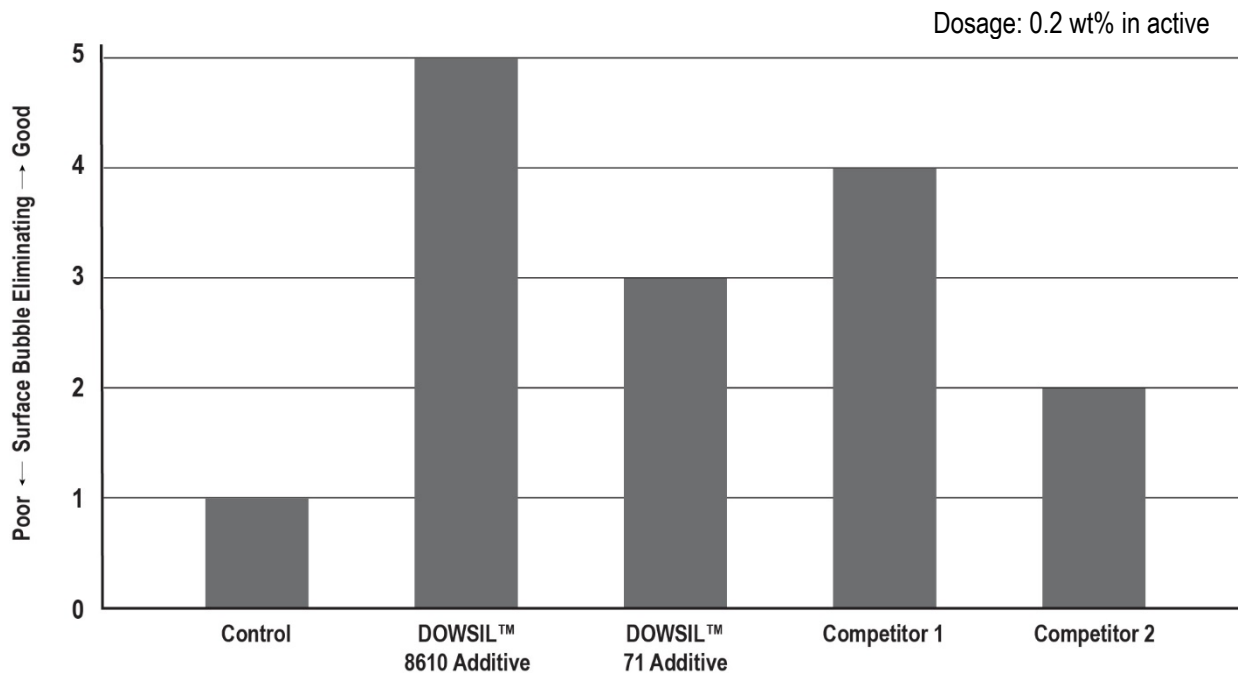
It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

**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.

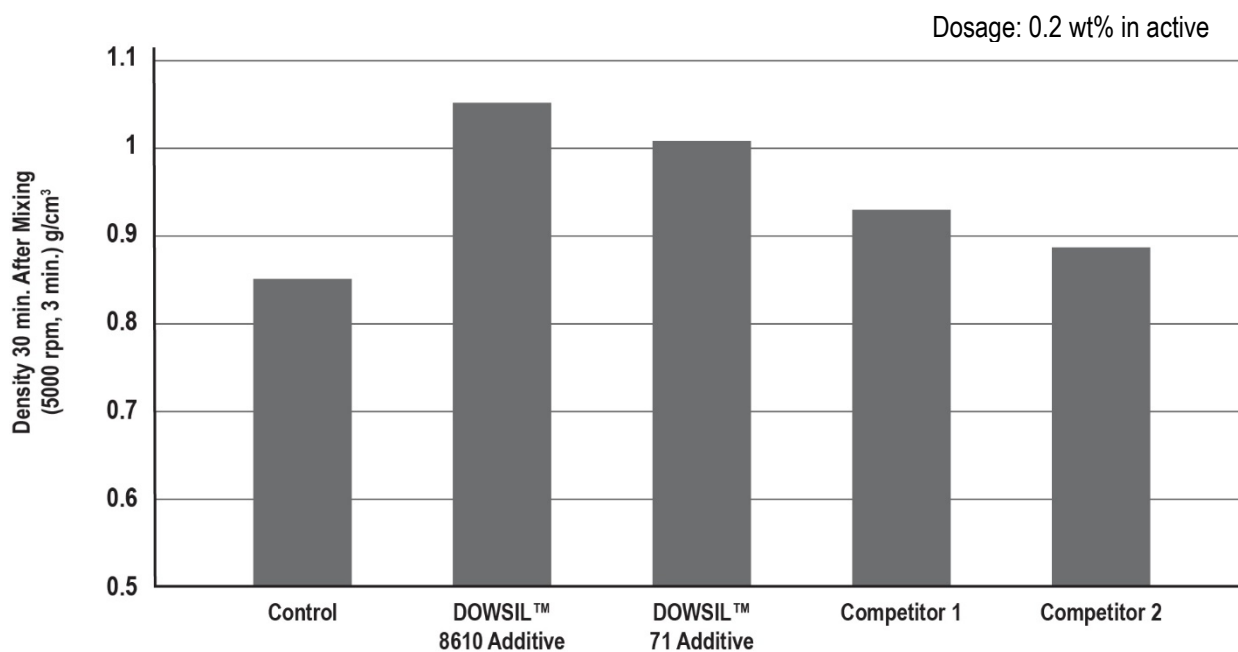
**Customer Notice**

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.



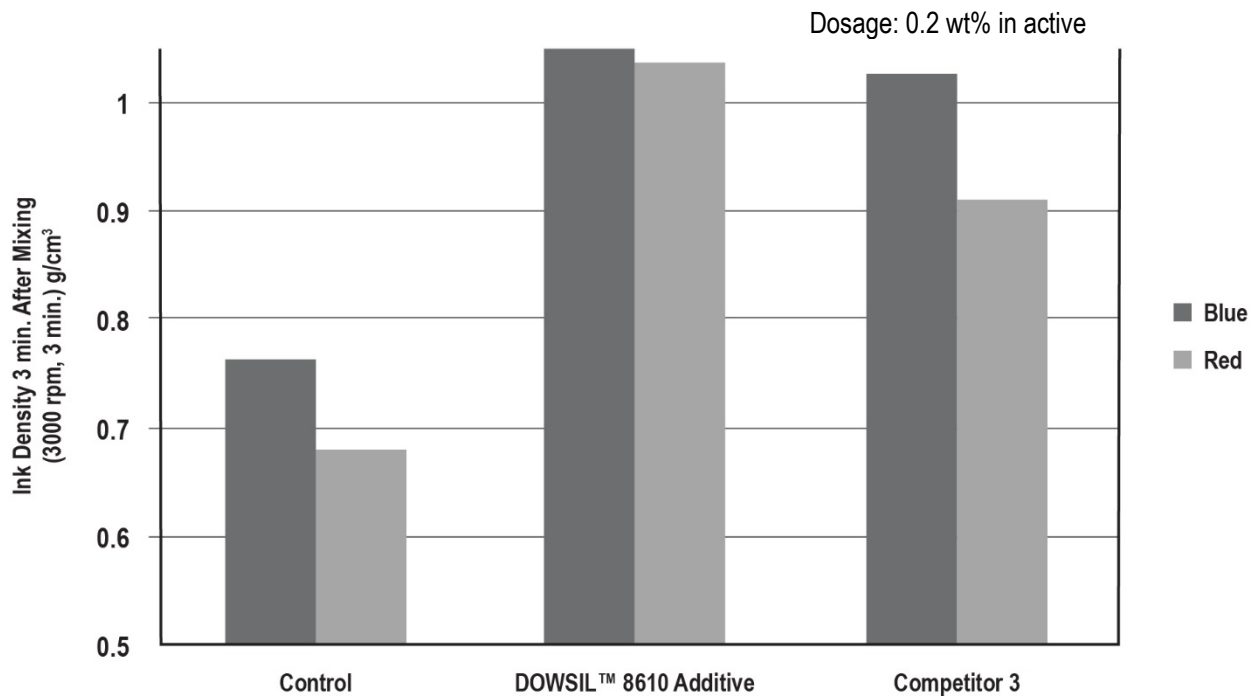
**Figure 1:** DOWSIL™ 8610 Additive and DOWSIL™ 71 Additive at 0.2 weight percent in a waterborne acrylic polyester coating. Microbubbles on the coating surface are eliminated with DOWSIL™ 8610 Additive after applied with medium-hair roller.

This data is generated by Dow.



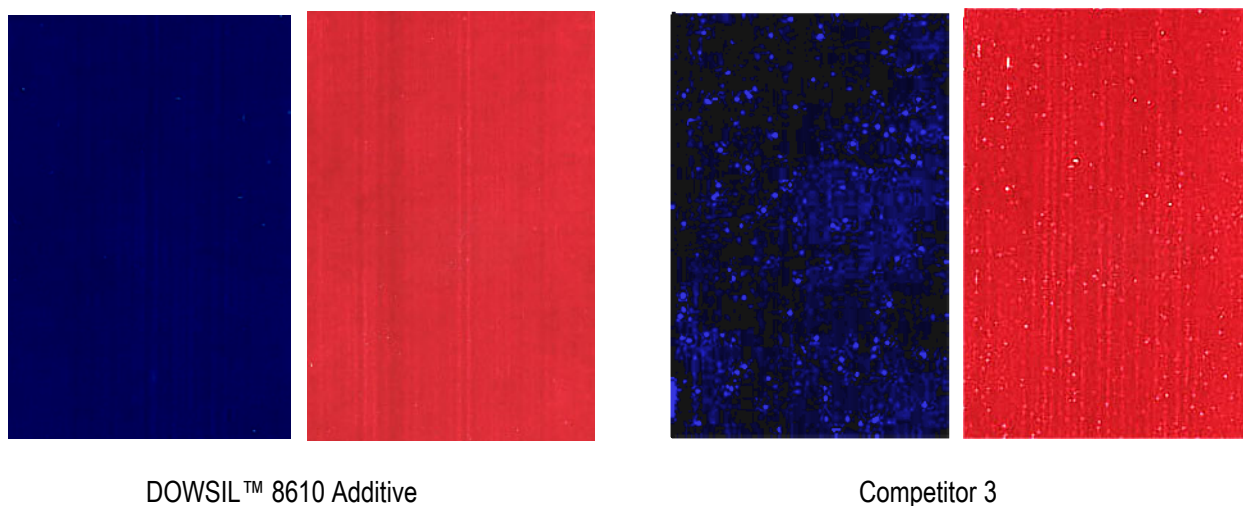
**Figure 2:** DOWSIL™ 8610 Additive and DOWSIL™ 71 Additive in the same waterborne acrylic polyester coating. Density reported after shearing at 5000 rpm for 3 minutes using dissolver blade. This data illustrates that DOWSIL™ 8610 Additive provides superior foam control.

This data is generated by Dow.



**Figure 3:** Performance of DOWSIL™ 8610 Additive in two kind of water born flexo gravure inks (Blue and Red). DOWSIL™ 8610 Additive also works as excellent defoamer at 0.2 weight percent for inks.

This data is generated by Dow.



**Figure 4:** Surface appearance of the same waterborne flexographic inks after drawdown on polyethylene laminated card board at 18.3 microns wet film thickness. In this case DOWSIL™ 8610 Additive shows better finish than competitive defoamer 3 without surface defects.

This data is generated by Dow.

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