



Technical Data Sheet

DOWSIL™ 7 Additive

Foam control and leveling/wetting aid in solvent-based ink and coating systems

Features & Benefits

- Provides foam control and leveling/wetting aid in solvent-based ink and coating systems
- Compatible with acrylic, alkyd, amide, epoxy, nitrocellulose, polyesters, polyurethane and vinyl systems
- Can be added at any process stage during manufacture
- Performs at low concentrations

Composition

- Fluorosilicone supplied at 5 percent active concentration

Applications

DOWSIL™ 7 Additive has been successful in these industrial applications:¹

To improve foam control:

Ink:	Solvent-based screen printing ink at 0.05–0.1% Solvent-based flexographic and gravure ink at 0.1–0.2%
Coating:	Solvent-based wood coating at 0.05–0.1% Solvent-based industrial coating at 0.05–0.1%
Paint:	Solvent-based paint at 0.1–0.2%

To improve leveling/wetting:

Ink:	Solvent-based flexographic ink at 0.1–0.2% Solvent-based wood coating at 0.5–5%
Coating:	Solvent-based industrial coating at 1.0–2.0% Solvent-based industrial metal decor coating at 0.5–1.0%
Paint:	Solvent-based paint at 0.05–0.1%

¹All usage levels are weight percents based on the total formulation.

Typical Properties

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

Property	Unit	Result
Appearance		Clear liquid
Percent Solids	percent	4.5–6.0
Solvent		Methyl isobutyl ketone
Specific Gravity at 25°C (77°F)		0.81
Flash Point, closed cup	°C (°F)	12 (54)
Viscosity at 25°C (77°F)	cSt	0.74–0.84

How To Use

DOWSIL 7 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 7 Additive is generally effective at concentrations ranging from 0.05–5% weight percent, based upon total formulation. This additive can be added during the grind or let-down or can be post-added.

Characteristics may vary when used with different systems and formulations. DOWSIL 7 Additive is compatible with acrylic, alkyd, amide, epoxy, nitrocellulose, polyesters, polyurethane and vinyl systems. Thorough preproduction testing is necessary to ensure expected performance.

Recoating

Finishes incorporating DOWSIL 7 Additive are generally recoatable without surface preparation. In the unlikely event that recoating difficulties occur, the surface should be washed with solvent and wet-sanded with a 1 percent detergent solution.

Handling Precautions

Caution: Vapors may irritate and cause pain and watering of the eye. Direct contact with the eye irritates moderately with redness and swelling.

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

Usable Life and Storage

DOWSIL 7 Additive has a shelf life of 18 months from date of manufacture. Refer to product packaging for "Use By" date.

Packaging Information

DOWSIL 7 Additive is available in 4 oz (113 g) samples, 30 and 31 lb (13.6 and 14 kg) pails and 325 lb (147.4 kg) drums.

Limitations

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

Shipping Limitations

DOT CLASSIFICATION: CLASS 3 FLAMMABLE.

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

consumer.dow.com

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