



Technical Data Sheet

DOWSIL™ 11 Additive

FEATURES & BENEFITS

- Provides slip, mar resistance and leveling in solvent-based applications
- Can correct glossing, pinholing and fisheyes
- Reduces foaming during production
- Recoatable when used as directed
- Does not contaminate

COMPOSITION

- Reactive silicone glycol surfactant with carbinol functionality
- Supplied at 10 percent active concentration

Silicone additive provides slip, mar resistance and leveling in solvent-based applications

APPLICATIONS

DOWSIL™ 11 Additive has been successful in these industrial applications:¹

To reduce the coefficient of friction:

- Ink: Solvent-based flexographic ink at 0.1–0.2%
- Coating: Solvent-based wood coating at 0.2–1.0% or as low as less than 0.05%
- Paint: Solvent-based paint at 0.05–0.2%

To improve mar resistance:

- Ink: UV-cured flexographic ink at 0.5–1.0%
- Coating: Solvent-based wood coating at 0.2–1.0% or as low as less than 0.05%
- Paint: Solvent-based paint at 0.05–0.2%

To improve leveling:

- Coating: Solvent-based automotive refinishing coating at 0.5–1.0% based on solids
Solvent-based wood coating at 0.1–5.0%
- Paint: Solvent-based paint at 0.05–0.1% or as high as 1.0%

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.

Test	Unit	Result
Appearance		Colorless to straw liquid
Nonvolatile Content	percent	9.5–11.0
Solvent		Toluene
Functionality		Carbinol
Specific Gravity at 25°C (77°F)		0.875
Flash Point, closed cup	°C (°F)	7 (45)
Viscosity at 25°C (77°F)	cs	1.5

HOW TO USE

DOWSIL 11 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 11 Additive is generally effective at concentrations typically ranging from 0.05–0.5 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 11 Additive is compatible with acrylic,

alkyd, amide, epoxy, nitrocellulose, polyesters, polyurethane and vinyl systems. Thorough preproduction testing is necessary to ensure expected performance.

Blending/Diluting

DOWSIL 11 Additive is typically added during the final thinning and color matching step. It should be blended after the paint has been removed from the processing equipment. DOWSIL 11 Additive can be diluted with aromatic solvents, mineral spirits or ketones (see Handling Precautions).

Recoating

Finishes incorporating DOWSIL 11 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: DIRECT CONTACT WITH EYES AND SKIN IRRITATES; MAY BE SEVERE.

**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 at or below 49°C (120°F) and above -34°C (-29°F), DOWSIL 11 Additive has a shelf life of 36 months from date of manufacture. Refer to product packaging for "Use By" date.

PACKAGING INFORMATION

DOWSIL 11 Additive is available in 16.9 fl oz (500 ml) samples; 33 lb (15 kg) pails and 396 lb (180 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.

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DOWSIL™ 11 Additive

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