



Technical Data Sheet

DOWSIL™ 57 Additive

FEATURES & BENEFITS

- Provides slip, gloss enhancement, pigment treatment and leveling for ink and coatings applications
- Provides mar resistance for coatings applications
- Compatible with acrylic, alkyd, amide, epoxy, nitrocellulose, phenolic, polyester, polyurethane and vinyl systems
- Does not contaminate
- Recoatable when used as directed

COMPOSITION

- Nonreactive silicone glycol copolymer surfactant supplied at 100 percent active concentration

Additive for ink and coating applications

APPLICATIONS

DOWSIL™ 57 Additive has been successful in these industrial applications¹:

- To improve leveling:
 - Ink Water-based flexographic ink at 0.05–0.1% (based on solids)
 - Coating Solvent-based plastic coating at 0.1–0.2%
Water-based industrial coating at 0.2–0.5%
 - Paint Water-based paint at 0.1–0.5%
Solvent-based paint at 0.05–0.2%
- To reduce coefficient of friction:
 - Ink Water-based flexographic ink at 0.05–0.1%
(based on solids) or 0.1–0.2% (based on total formulation)
 - Paint Water-based paint at 0.2–1.0%
Solvent-based paint at 0.05–0.2%
- To improve mar resistance:
 - Coating Water-based industrial coating at 0.2–0.5%
 - Paint Water-based paint at 0.5–1.0% or as low as 0.1%
Solvent-based paint at 0.05–0.1%
- To enhance gloss:
 - Ink Water-based flexographic ink at 0.05–0.1% based on solids
 - Paint Water-based paint at 0.5–0.75%
- To aid in pigment dispersing:
 - Paint Water-based paint at 0.05–0.15%

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-to-hazy liquid
Specific Gravity at 25°C (77°F)		1.03
Flash Point, Closed Cup	°C (°F)	106.7 (224.06)
Viscosity at 25°C (77°F)	cs	270

HOW TO USE

DOWSIL 57 Additive is effective at low concentrations. The amount required depends on the type of formulation, the solvent it contains, resin system and total system solids. DOWSIL 57 Additive is generally effective at concentrations typically ranging from 0.05–1.0 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 57 Additive is compatible with acrylic, alkyd, amide, epoxy, nitrocellulose, phenolic, polyester, polyurethane and vinyl systems. Thorough preproduction testing is necessary to ensure expected performance.

Blending/Diluting

DOWSIL 57 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 57 Additive can be diluted with isopropyl alcohol or dispersed in water.

Recoating

Finishes incorporating DOWSIL 57 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 may irritate with redness and swelling. A single short exposure with the skin may irritate. **See SDS for additional information.**

**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 above -50°C (-58°F) and below 50°C (122°F), DOWSIL 57 Additive has a shelf life of 30 months

from date of manufacturing. Refer to product packaging for "Use By" date.

PACKAGING INFORMATION

DOWSIL 57 Additive is available in 4 fl oz (120 mL) samples, 46.3 lb (21 kg) pails and 441 lb (200 kg) drums.

SHIPPING LIMITATIONS

Combustible liquid. Store and ship in appropriate containers.

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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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.

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DOWSIL™ 57 Additive

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