



DOWSIL™ 14 Additive

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

Features & Benefits

- Provides slip and leveling in water and solvent-based applications and mar resistance in water-based systems

Composition

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

Applications

DOWSIL™ 14 Additive has been successful in these industrial applications:

Table 1: Industrial Applications for DOWSIL 14 Additive¹

To Reduce the Coefficient of Friction:	
Coating:	Solvent-based and water-based industrial coating at 0.05–0.1%
Paint:	Water-based paint at 0.2–0.5%
To Improve Mar Resistance:	
Coating:	Water-based industrial coating at 1.0%
Paint:	Water-based paint at 0.2–0.5%
To Improve Leveling:	
Coating:	Solvent-based industrial coating at 1.0–2.0%
Paint:	Water-based paint at 0.05–0.1% or 0.2–0.5%

1. All usage levels are weight percent 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
Nonvolatile content	percent	9.5–11.5

Typical Properties (Cont.)

Property	Unit	Result
Solvent		Isopropyl Alcohol
Functionality		Carbinol
Specific gravity at 25°C (77°F)		0.807
Flash point, closed cup	°C (°F)	10 (50)
Viscosity at 25°C (77°F)	cs	4.0

How To Use

DOWSIL 14 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 14 Additive is generally effective at concentrations ranging from 0.05–2.0 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 14 Additive is compatible with acrylic, alkyd, epoxy, polyesters, and polyurethane systems. Thorough preproduction testing is necessary to ensure expected performance.

Handling Precautions

CAUTION: Direct contact with eyes may irritate; 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 between -45 and 45°C (-49 and 113°F) in the original unopened containers, DOWSIL 14 Additive has a usable life of 30 months from the date of production.

Packaging

DOWSIL 14 Additive is available in 4 oz (113 g) samples; 33 lb (14.9 kg) pails and 363 lb (164.6 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, www.consumer.dow.com or consult your local Dow representative.

<http://www.consumer.dow.com>

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