

## Product Information

# Paints, Inks and Coatings

## *Dow Corning® 18 Additive*

### FEATURES

- Slip- and mar-resistance additive for solvent-based coatings
- Mar-resistance additive for water-based coatings and inks
- Contains no solvents

### COMPOSITION

- Non-reactive high-molecular- weight polydimethyl siloxane dispersion containing no volatile solvent

### Silicone additive provides slip and mar resistance for solvent-based coatings as well as a mar resistance for water-based coatings and inks

### APPLICATIONS

*Dow Corning® 18 Additive* imparts mar resistance, slip and antiblocking properties to waterborne, high-solids and solventless inks, UV and EB radiation- cure overprint varnishes, paints and coatings:<sup>1</sup>

- To improve slip and mar resistance:
 

Coatings	Solvent-based paints at 0.2-0.5%
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- To improve mar resistance:
 

Coatings	Water-based wood coatings at 0.5-1.0% based on solids
Inks	Water-based flexographic inks at 0.1-0.2% or as high as 2.0-3.0%

*Dow Corning 18 Additive* also provides “hand” to leather, “wet look” to fabric coatings and reduced friction and wear to castable urethanes.

<sup>1</sup>All usage levels are weight percents based on the total formulation.

### TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test	Unit	Result
Physical Form		White, nonpourable paste
Nonvolatile Content	percent	100
Specific Gravity at 25°C (77°F)		0.93
Flash Point, closed cup	°C (°F)	168 (334)
Viscosity at 25°C (77°F)	cs	500,000

### HOW TO USE

*Dow Corning 18 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.

*Dow Corning 18 Additive* is generally effective at concentrations ranging from 0.05 to 0.5 weight percent or as high as 1.0 to 3.0 weight percent based on total formulation. This additive can be added during the let-down or can be post-added. Characteristics may vary when used with different systems and formulations. *Dow Corning 18*

Additive is compatible with acrylic, alkyd, epoxy, polyesters, polyurethane and vinyl systems. Thorough preproduction testing is necessary to ensure expected performance.

### HANDLING PRECAUTIONS

Caution: Direct eye contact may cause mild irritation.

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use,

physical and health hazard information. The material safety data sheet is available on the Dow Corning website at [www.dowcorning.com](http://www.dowcorning.com). You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

### **USE LIMITATIONS**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. Not for human injection.

### **SHIPPING LIMITATIONS**

None.

### **STORAGE AND SHELF LIFE**

*Dow Corning* 18 Additive has a shelf life of 21 months from date of manufacture. Refer to product packaging for "Use By" date.

### **HEALTH AND ENVIRONMENTAL INFORMATION**

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [www.dowcorning.com](http://www.dowcorning.com) or consult your local Dow Corning representative.

### **PACKAGING**

Dow Corning 18 Additive is available in 500 ml samples, 15.8-kg (35 lb) pails and 172.3-kg (380-lb) drums.

### **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 Dow Corning's 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.

Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment.

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.

**DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

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