

Product Information

Paints, Inks & Coatings

DOW CORNING

DOW CORNING® 19 Additive

FEATURES

- Silicone polyether copolymer
- More compatible with organic resins than polydimethylsiloxane
- 100% active
- Slip
- Mar resistance
- Antiblocking
- Improves levelling
- Increases gloss
- Reduces orange peel

Slip, mar resistance, antiblocking agent

APPLICATIONS

- Additive designed to provide slip, mar resistance and anti-blocking in water and solvent borne paints, inks and coatings.
- Improves levelling, reduces orange peel, increases gloss and provides a smooth, satin feel to the surface.
- Prevents pinholing, cissing and fish eyes arising from poor wetting of contaminated or low energy substrates.

TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

Parameter	Unit	Value
Appearance		Liquid
Active content	%	100
Viscosity	mm ² /s	1750
Flash point - closed cup	°C	63
	°F	145.4
Specific gravity at 25° C/15.6° C (77° F/60.08° F)		1.037
Suitable diluents		Water, alcohol, aromatics

DESCRIPTION

DOW CORNING 19 Additive is a modified silicone, designed primarily to provide levelling, slip and mar resistance in water and solvent borne paints, inks and coatings. This additive also improves anti blocking properties, gloss and substrate wetting.

DOW CORNING 19 Additive has been successfully tested in:

- Architectural coatings based on alkyds/emulsions
- Clear wood coatings
- Clear overprint varnishes
- Industrial coatings based on alkyds, emulsions (polyacrylate, polyurethane, hybrid systems)
- Oven cured coatings (alkyd, polyester, polyurethane).

As Graphs 1 and 2 will demonstrate.

HOW TO USE

The additive is usually added during the final thinning and colour matching step. If dilution of the additive is required as when adding an extremely small amount, it may be diluted with water, alcohol or aromatic solvents. Use at 0.1-1.0%, based upon total solids.

Recoating difficulties are not usually encountered within the recommended dosage range. If they do occur, the surface should be washed with solvent then wet sanded with a 1% detergent solution.

HANDLING PRECAUTIONS

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 SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

USABLE LIFE AND STORAGE

Storage should be away from heat.

After several months of storage the product should be thoroughly mixed prior to use.

When stored at or below 50°C (122°F) in the original unopened containers, this product has a usable life of 18 months from the date of production.

PACKAGING

This product is available in 20kg pails and 200kg drums.

Samples are available in 100cc.

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 Corning has an extensive Product Stewardship organization and a team of Health, Environment and Regulatory Affairs specialists available in each area.

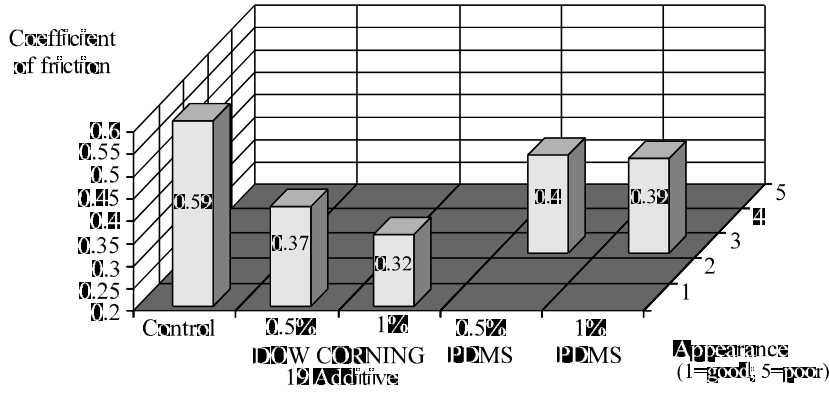
For further information, please consult your local Dow Corning representative.

WARRANTY

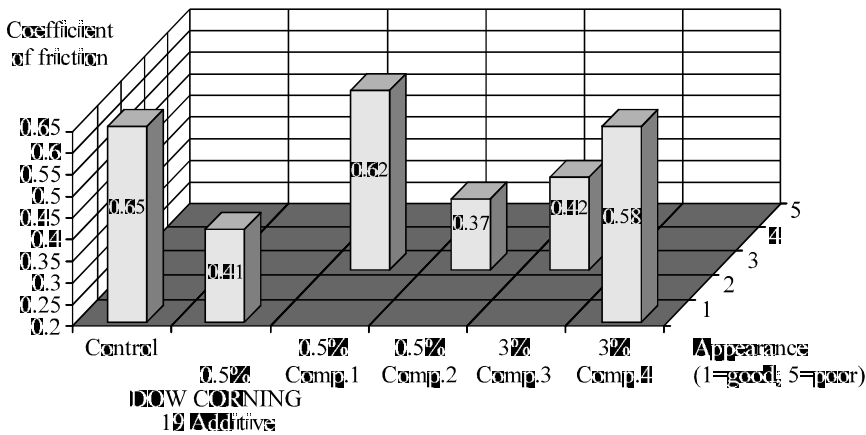
INFORMATION - PLEASE READ CAREFULLY

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. 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. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.

**Graph 1: Slip improvement of a water based clear acrylic wood coating-
DOW CORNING 19 Additive in comparison to a polydimethyl siloxane emulsion.**



**Graph 2: Slip improvement of a water based acrylic architectural coating-
DOW CORNING 19 Additive in comparison to other additives.**



- Comp. 1: 100% active modifier silicone
- Comp. 2: 100% active modifier silicone
- Comp. 3: 30% active wax emulsion
- Comp. 4: 45% active wax emulsion

