



Technical Data Sheet

DOWSIL™ 85 Additive

Silicone additive for aqueous inks

Features & Benefits

- Imparts good tensile strength to inks
- Imparts good elongation to inks
- Inks have improved coefficient of friction
- Imparts good weathering properties to inks
- Inks have improved gloss and mar resistance
- Protective, water-resistant fabric coating
- Dries to an elastomeric film

Applications

- Used as an additive for water based and dilutable inks provide water and mild chemical resistance.
- It may be used as a protective and water-resistant coating for a variety of woven and non-woven textiles and fabrics.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

CTM ¹	Property	Unit	Result
0176	Appearance		Opaque liquid
	Non-volatile content	%w/w	60
0021A	Flash point, closed cup	°C °F	> 100 > 212
0001A	Specific gravity at 25°C (77°F) /15.6°C (60.08°F)		1.10
0004	Viscosity at 25°C (77°F)	mPa.s	40,000
0007	pH		11

1. CTM: Corporate Test Method, copies of CTMs are available on request.

How To Use

DOWSIL™ 85 Additive must be stirred well before using. A layer separation may occur in shipping which has no detrimental effect on the performance of the material. Drum rolling is required to remix the emulsion. If DOWSIL 85 Additive is used over a long period of time, it should be remixed before each use. DOWSIL 85 Additive is cured by simple evaporation of water at room temperature. The evaporation of water may be accelerated by elevating the temperature.

How To Use (Cont.)**Formulating For Lower Costs**

If DOWSIL 85 Additive is too concentrated as supplied, dilution may be made with water. In addition, extending fillers can be added.

Rheology Modification

DOWSIL 85 Additive is supplied pre-thickened. Methocel, Rheolate and Gelwhite thickeners have been found to be compatible.

Formulated Coloured Coatings

This material can be pigmented with water based colorants. Universal colors UCD "a" line and Harshaw Aurasperse colors have been found to be compatible with DOWSIL 85 Additive.

**Handling
Precautions**

In case of skin or eye contact, flush area thoroughly with large amounts of water. In case of eye contact seek medical attention.

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**

Usable life will be impacted when the products are stored below 7°C (44.6°F) and above 32°C (89.6°F).

When stored at or below 25°C (77°F) in the original unopened containers, this product has a usable life of 24 months from the date of production.

Packaging

This product is available in 18 kg and 214 kg 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.

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DOWSIL™ 85 Additive

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