



Technical Data Sheet

DOWSIL™ EP-9801 Hydro Cosmetic Powder

INCI NAME: Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica (and) Butylene Glycol

Features & Benefits

- White elastomeric silicone powder
- Free-flowing powder
- Water dispersible
- Oil dispersible
- Easy to use in various media
- Smooth and powdery feel
- Soft-focus properties
- Sebum absorption
- Absorption of various fluids and oils

Composition

- Silicone elastomer powder treated with silica and butylene glycol

Applications

- Skin care
- Color cosmetics
- Sun care

Typical Properties

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

CTM ¹	Property	Unit	Result
0176B	Appearance		White powder
1151B	Average particle size	µm	3–10
0025A	Bulk density	g/cm ³	0.2–0.5

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

Description

DOWSIL™ EP-9801 Hydro Cosmetic Powder is a silicone powder treated with silica and butylene glycol.

The powder can be readily dispersed in water.

The powder can be added to a wide range of formulations (e.g., toner, gel, cream, foundation, as well as other skin care and color cosmetic products).

Description (Cont.)

The powder provides a smooth and powdery feel to water-based formulations.

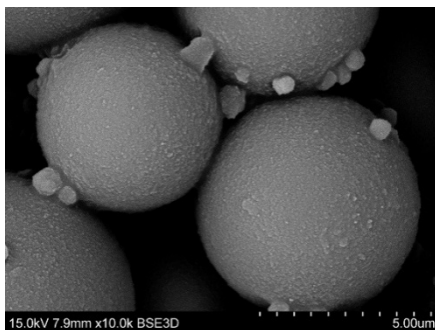


Figure 1: SEM of DOWSIL™ EP-9801 Hydro Cosmetic Powder

How to Use

DOWSIL™ EP-9801 Hydro Cosmetic Powder is easy to use. The powder can be added directly to the water phase without the need for making a premix in another fluid. Water phases might require a neutralization step. For formulations in a powder form, DOWSIL™ EP-9801 Hydro Cosmetic Powder can be ground directly with other powders.

Handling Precautions

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 DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life and Storage

When stored at or below 30°C (86°F) in the original unopened containers, this product has a usable life of 18 months from the date of production.

Packaging Information

The product is available in 10 kg bags. Samples are available in 500 g cartons.

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, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

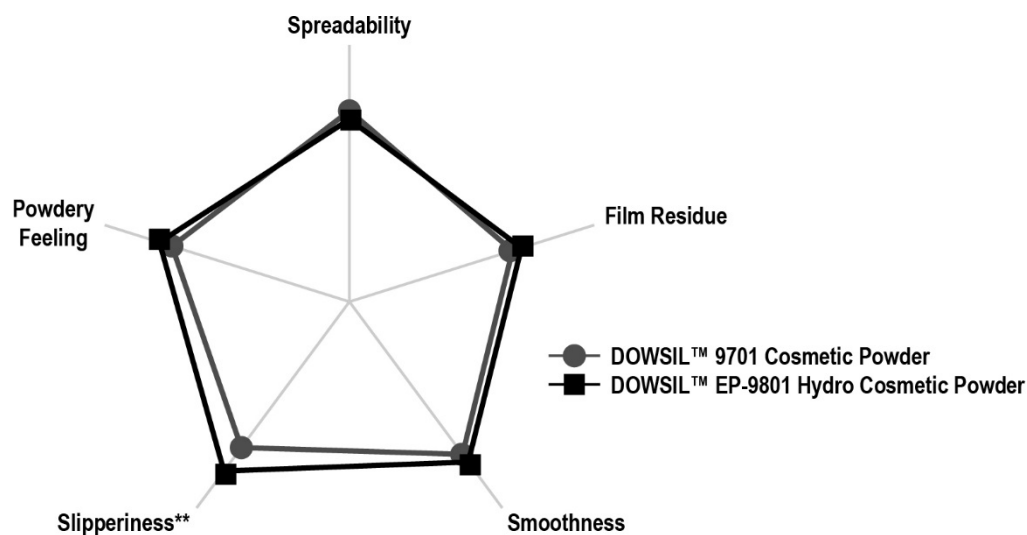


Figure 2: DOWSIL™ EP-9801 Hydro Cosmetic Powder has similar sensory profile compared with DOWSIL™ 9701 Cosmetic Powder.

**Different with 99% confidence level

There is no significant difference between the 2 powders for all sensory parameters evaluated.

Table 1: Oil absorption of DOWSIL™ EP-9801 Hydro Cosmetic Powder and other powders

Oil absorption (g oil / g powder)				
Test Material	DOWSIL™ 9506 Powder	DOWSIL™ 9701 Cosmetic Powder	DOWSIL™ EP-9801 Hydro Elastomer Powder	Resin Powders
INCI Name	Dimethicone/ Vinyl dimethicone Crosspolymer	Dimethicone/ Vinyl dimethicone Crosspolymer (and) Silica	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica (and) Butylene Glycol	Polymethylsilsesquioxane
Artificial Sebum Oil*	1.75	1.01	0.85	Close to 0
Mineral Oil	1.75	1.28	0.94	Close to 0

*Dow internal formulation

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