



Technical Data Sheet

SILASTIC™ LCF 8400 Binder

High-elongation, high adhesion strength, shear thinning textile coating agent

Features & Benefits

- High elongation
- Strong adhesion to substrates
- Slow cure
- Good compatibility with silicone thinner

Applications

- Coating on fabrics that requires high adhesion strength

Typical Properties

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

Test ¹	Property	Unit	Result
CTM 0050 QW	Mixed Viscosity	cP	300,000
CTM ² 0022 A	Specific Gravity		1.08
CTM ² 0099 A	Durometer (Shore A)		29
CTM ² 0137AB	Elongation	%	900

1. CTMs (Corporate Test Methods) are based on standard ASTM (American Society for Testing and Materials) tests. Copies of CTMs are available upon request.
2. Test sheets prepared by compression molding a mixture of base and catalyst, cured for 10 minutes at 120°C (248°F).

Description

SILASTIC™ LCF 8400 Binder is a two-component silicone system designed for high strength adhesion on textile substrates.

Benefits

Once cured, SILASTIC™ LCF 8400 Binder offers high elongation and high adhesion strength to many different substrates.

How to Use

SILASTIC™ LCF 8400 Binder is mixed at 1:1 ratio using proper mixing machine with no heat generation and contamination. And this liquid silicone rubber LSR can be mixed with low viscosity silicone fluids and silicone based pigments with good compatibility. Only tested and recommended color concentrates should be used with SILASTIC™ LCF 8400 Binder. This is because SILASTIC™ LCF 8400 Binder could be poisoned by some ingredients in the colorant. Contact Dow distribution partners or your local technical representative for suitable color concentrates.

How to Use (Cont.)

Mixing and Curing

The components can be manually weighed and mixed by hand or using a mechanical mixer. SILASTIC™ LCF 8400 Binder is applied onto fabric and cured at 100~200°C at 1~10 minutes to cure. Generally SILASTIC™ LCF 8400 Binder is cured at 150°C x 3 minutes when thickness is about 0.2 mm.

Cleaning

It is always recommended to clean the screen right after the printing operation is completed as the ink will cure with time. Uncured, formulated SILASTIC™ LCF 8400 Binder can generally be removed from the equipment with the same cleaning agents used to remove plastisol inks. In addition, hydrocarbon-based solvents such as white spirit can be used. Polar solvents are not suitable.

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, SILASTIC™ LCF 8400 Binder has a usable life of 9 months from the date of manufacture.

Packaging Information

Multiple packaging sizes are available for these products.

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.

dow.com

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