Technical Data Sheet

SILASTIC™ LCF 3760 Fabric Coating

Two part liquid silicone rubber for fabric coating

Features & Benefits

- Solventless
- Flowable
- Cures in conventional ovens
- Easily pigmentable
- Excellent unprimed adhesion to polyamide and polyester fabric
- Soft, flexible, high elongation cured rubber properties

Applications

- Liquid Silicone Rubber (LSR) fabric coating designed for use on conventional knife coating applications.

Typical Properties

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

Test[1]	Property	Unit	Result		
CTM 0176B	Appearance	Part A Part B	Translucent white to pale yellow Translucent white		
			Part A	**Part B**	**Mixed 1:1**
CTM 0050FE	Viscosity, 10 rpm	mPa.s	145,600	196,400	151,600
ASTM D792	Specific gravity		1.07	1.07	1.07
	Solids content[2]				
	Rubber properties, measured on a 2 mm test sheet cured 10 minutes/120°C				
ASTM D412 Die C	Elongation at break	%	1560		
ASTM D412 Die C	Tensile strength	MPa	3.5		
ASTM D624B	Tear strength	kN/m	6.5		
ASTM D2240	Durometer hardness	Shore A	8		

1. Materials were tested according to Dow Corporate Test Methods (CTM), which in most cases are similar to the ASTM (American Society for Testing and Materials.) standard listed above. Copies of CTMs are available on request.
2. 2 g sample heated in an aluminum dish for 2 hours at 170°C.

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How to Use

Mixing
The A and B components are supplied strained and de-aired. Mix parts A and B in a 1:1 +/-0.05 ratio by weight. Meter mix equipment which pumps, meters and mixes the two components without the incorporation of air is strongly recommended for production. In either case, air entrainment should be avoided by careful choice of mixer blade design and mixing speed.

Pot Life
Mixed Parts A and B will remain usable for 4 hours at 25°C (77°F).

Cure
The mixed LSR is applied to the fabric and cured in an oven using a temperature/time schedule to achieve sufficient adhesion and coating aging properties.

A suggested cure is 180°C for 1 minute, but lower temperature for a longer time may be suitable for polyester. A minimum temperature of 150°C is recommended.

Cure can be inhibited by contact with certain materials such as amines, sulphur and tin complexes. The effect on the coating is to prevent complete cure, with the result that the coating feels sticky. Low levels of inhibition may not result in stickiness, but can reduce adhesion, and in some cases this can be recovered by further heating.

Pigmentation
This is normally carried out during mixing and dispensing of the two components.

SILASTIC™ LPX Liquid Color Masterbatches are recommended with normal addition levels of 0.5 to 2% based on total volume. These products are available from Dow.

Cleaning
The uncured silicone can readily be removed by most hydrocarbon solvents. Polar solvents, such as ketones and alcohols, 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 32°C in the original unopened containers, SILASTIC™ LCF 3760 Fabric Coating has a usable life of 12 months from the date of production.

Packaging Information

This product is available in standard industrial container sizes.

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.

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