



## SLE 5700-D1

### *Elastomeric Coating*

**Product Description**

SLE5700-D1 is a liquid, two-component silicone elastomer which can be cured within 1-2 minutes @ 160°C. This product is mixed in a 1:1 ratio by weight with the resultant blended viscosity of 20 000 mPa·s, which is suitable for applications in the textile industry. SLE5700-D1 is designed to enhance the physical strength of engineered textiles while providing durable anti-blocking characteristics.

**Key Performance Properties**

- Solventless application
- Rapid film cure
- Pourable
- Enhances physical strength of fabric

**Typical Product Data****Typical Uncured Properties**

Appearance		Translucent
Viscosity A+B	mPa·s	20 000
Catalyzed Viscosity @ 25°C after 6hrs	mPa·s	250 000
Specific Gravity @ 25°C	g/cm <sup>3</sup>	1.01
Worklife @ 25°C	hours	48

**Typical Cured Properties**

Hardness	Shore A	40
Tensile Strength	MPa	> 5.0
Elongation	%	> 200

**Specifications**

Typical product data values should not be used as specifications. Assistance and specifications are available by contacting GE Bayer Silicones Technical Service.

**Instructions for Use****Compatibility**

SLE5700-D1 will cure when applied to a clean, dry surface, which has been properly prepared. Certain materials such as butyl and chlorinated rubber, sulfur-containing materials, amines and certain metal soap-cured RTV silicone rubber compounds can cause cure inhibition. Cure inhibition is characterized by a gummy appearance of the silicone at the interface between it and the substrate. Inhibition will result in failure of the elastomer to reach the desired physical property specifications and may reduce the adhesion of the silicone to the fabric. Certain fabric treatments may hinder the cure of the silicone elastomer; therefore, it is recommended that a sample patch test be performed with the SLE product to determine if a barrier coating or other inhibition-preventing measure is required.

### **Mixing**

Stir both A and B components thoroughly with clean tools before mixing. This can be done by utilizing a batch power mixer or by using an agitator suitable for insertion directly into the shipping container. Add equal parts of A and B components, by weight, and continue stirring for several minutes until well mixed. Care should be taken to minimize air entrapment during mixing as this may cause voids in the cured product. When mixing it is also important to control batch temperature so as not to overheat the mixture, which would result in a shorter pot life. Expose the mixed material to a vacuum of 10-20 mbar for several minutes. The material will expand, crest, and recede to about the original level. Automatic equipment designed to meter, mix, deaerate, and dispense a two component silicone elastomer will add convenience to continuous large-scale operations. Once blended together the silicone will have a room temperature pot life of ca. 48 hours.

### **Application**

Fabric substrates should be preheated at cure temperature to remove entrapped air before the SLE is coated on the material. SLE5700-D1 can be applied in low coat weights of 40g/m<sup>2</sup> by standard fabric coating techniques of knife over roll, knife over table and gap table application.

### **Curing**

Knife coated applications where the silicone penetrates deeply into the fabric can be cured within 1-2 minutes at 160°C. Application techniques that apply greater coating thickness will decrease the rate of heat transfer and will therefore require a longer cure time.

### **Handling and Safety**

Material Safety Data Sheets are available upon request from GE Bayer Silicones. Similar information for solvents and other chemicals used with GE Bayer products should be obtained from your suppliers. When solvents are used, proper safety precautions must be observed. SLE5700-D1 can generate flammable gas upon contact with acidic, basic or oxidizing materials.

### **Storage and Warranty Period**

The warranted shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 4 months when stored in the original unopened containers below 25° C.

### **Availability**

SLE5700-D1 is available in 36.3 kg pail kits and 362.9 kg drum kits.

#### LEGAL DISCLAIMER

THE MATERIALS, PRODUCTS AND SERVICES OF GE SILICONES, GE BAYER SILICONES, GE TOSHIBA SILICONES, THEIR SUBSIDIARIES OR AFFILIATES (THE 'SUPPLIER'), ARE SOLD SUBJECT TO THE SUPPLIER'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN APPLICABLE SALES AGREEMENTS, PRINTED ON THE BACK OF ACKNOWLEDGMENTS AND INVOICES, OR AVAILABLE UPON REQUEST. ALTHOUGH THE INFORMATION, RECOMMENDATIONS OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (I) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (II) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SUPPLIER'S MATERIALS, PRODUCTS, SERVICES, RECOMMENDATIONS OR ADVICE. NOTHING IN THIS OR ANY OTHER DOCUMENT SHALL ALTER, VARY, SUPERSEDE OR OPERATE AS A WAIVER OF ANY OF THE SUPPLIER'S STANDARD CONDITIONS OF SALE.

Each user bears the full responsibility for making its own determination as to the suitability of Supplier's materials, products, services, recommendations or advice for its own particular purpose. Each user must identify and perform tests and analyses sufficient to assure it that its finished parts will be safe and suitable for use under end-use conditions. Because actual use of products by the user is beyond the control of Supplier, such use is within the exclusive responsibility of the user, and Supplier cannot be held responsible for any loss incurred through incorrect or faulty use of the products. Further, no statement contained herein concerning a possible or suggested use of any material, product, service or design is intended or should be construed to grant any license under any patent or other intellectual property right of Supplier or any of its subsidiaries or affiliated companies, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.