

Silbione® HS Firm Gel LV 10:1 A/B

October 2017

Silicone Adhesive Gel

Description **Silbione® HS Firm Gel LV 10:1 A/B** is a two part, platinum cure, 100% solids, pure dimethyl silicone gel, designed for applications requiring a responsive, high strength gel.

Applications

- Breast enhancers
- Cushions
- Pressure sensors
- Encapsulated electronic parts

Advantages

- **Used for skin contact applications**
- Excellent adherence to many polymer films
- Consistent performance (penetration)
- Rapid curing at elevated temperatures can be used for a softer gel in off-ratios
- Superior clarity

Typical Properties

<u>Typical Properties as Supplied</u>	<u>Silbione® HS Firm Gel LV- A</u>	<u>SilbioneE® HS Firm Gel LV- B</u>
• Viscosity, 23°C	10,000	200

<u>Typical Properties Mixed</u>	<u>Mix ratio = 10:1 Part A: Part B</u>
• Pot Life, 23°C, hrs.	>2

<u>Typical Properties of Cured Products</u>	<u>Test Method</u>	<u>Unit</u>	<u>Value</u>
• Penetration, cured 15 min., 110°C <i>Petrolab PNR 10 penetrometer, cone type</i>	ASTM D217C	mm	8

Please note: The typical properties listed in this bulletin are not intended for use in preparing specifications for any particular application of **Silbione®** silicone materials. Please contact our Technical Service Department for assistance in writing specifications.

Instructions for use Parts A and B components of **Silbione® HS Firm Gel LV 10:1 A/B** are designed to be mixed at a ratio of 10 parts A to 1 part B (10:1) by weight or volume using meter-mix processing equipment or batch mixing techniques. Airless mixing, metering and dispensing equipment is recommended for production.

Curing Curing is typically achieved in 15 minutes at 120°C. The cure rate can be increased by increasing temperature.





Precautions Accurate measuring and complete mixing are essential factors in obtaining consistent results. Special care must be taken to insure clean molds and clean work areas with no organic rubbers used on the same processing equipment. In general, contact with polymer systems containing the following materials can inhibit the crosslinking of the product:

- sulfur
- metallic salts, e.g. tin compounds
- amines
- nitrogen oxide
- carbon monoxide

Silbione® HS FIRM GEL LV 10:1 A/B

Storage and shelf life	Silbione® HS Firm Gel LV 10:1 A/B when stored in its original unopened packaging, at a temperature of 30°C, may be stored for 24 months from the date of manufacture. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.
Safety	Please read the container labels for Silbione® HS Firm Gel LV 10:1 A/B or consult the Safety Data Sheet (SDS) before handling for safe use, physical and health hazard information.
Packaging	Silbione® HS Firm Gel LV 10:1 A/B is available in 1.8 kg, 18kg and 180kg packages.

Silbione® is a registered Trademark of **Elkem SILICONES**

 EUROPE	 NORTH AMERICA	 LATIN AMERICA	 ASIA PACIFIC
<p><i>Elkem Silicones France</i> 21 Avenue Georges Pompidou F69486 Lyon Cedex 03 FRANCE Tel. (33) 4 72 13 19 00 Fax (33) 4 72 13 19 88</p>	<p><i>Elkem Silicones USA</i> Two Tower Center Boulevard Suite 1601 East Brunswick, NJ 08816-1100 United States Tel. (1) 732 227 2060 Fax (1) 732 249 7000</p>	<p><i>Elkem Silicones Brazil Ltda.</i> Av. Maria Coelho Aguiar, 215 Bloco G - 1º Andar 05804-902 - São Paulo - SP - Brazil Tel. (55) 11 3747 7887 Fax (55) 11 3741 7718</p>	<p><i>Elkem Silicones Hong Kong</i> Trading Co. Ltd. Unit C, 18/F Manulife Tower 169 Electric Road North Point-Hong Kong Tel. (852) 3106 8200 Fax (852) 2979 0241</p>
<p>Warning to the users The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. Elkem SILICONES guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for given use. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document and Elkem SILICONES is at their disposal to supply any additional information.</p>			