

BLUESIL RTV 8352 LV A-B

Description	<p>BLUESIL RTV 8352 LV A&B is a two-component silicone elastomer which cures at room temperature by a polyaddition reaction. The curing can be accelerated by heating. BLUESIL RTV 8352 LV A&B is supplied in the form of a viscous liquid which is transformed, after mixing parts A&B and then curing, into a strong, elastic material.</p>
Examples of applications	Coating and encapsulation in electro-technical and electronics applications.
Key benefits	<ul style="list-style-type: none"> • Dissipation of calories (encapsulation). • Low viscosity (easily refilled). • Advantageous mixing ratios (1/1): <ul style="list-style-type: none"> ○ Unaffected by inaccurate dosage. ○ Usable in two-component machines. • Fast curing time. <p>Additives range: Accelerator BLUESIL ACC PA 39 and retarder BLUESIL RTRD PA 40.</p>

Typical properties

1. BLUESIL RTV 8352 LV A&B components

<i>Properties</i>	BLUESIL RTV 8352 LV A	BLUESIL RTV 8352 LV B
Appearance	viscous liquid	
Colour	whitish	
Viscosity (At 23 °C, mPa.s, approx.).	2 200	

(1) as measured on a Brookfield RTV viscometer using needle N°4, speed 10 rpm

2. Mixing the two components

<i>Properties</i>	BLUESIL RTV 8352 LV A&B
Mixing ratio A/B (By weight)	1:1
Pot life (At 23°C, 50% relative humidity, minutes, approx.)	130
Demoulding time (At 23°C, 50% relative humidity, hours, approx.)	8

3. Cured product

3.1 - Mechanical properties

<i>Properties</i>	BLUESIL RTV 8352 LV A&B
Hardness (Shore A)	55
Specific gravity (At 23°C, approx.)	1.41
Tensile strength at break (Mpa, approx.)	2.3
Elongation at break (%)	78

3.2 - Dielectric properties

<i>Properties</i>	BLUESIL RTV 8352 LV A&B
-------------------	-------------------------

BLUESIL RTV 8352 LV A-B

	at 50 Hz	at 1 kHz	at 1 MHz
Dielectric constant (IEC 60250)	3,6	3,6	3,6
Dielectric dissipation factor (IEC 60250)	$6,3 \cdot 10^{-3}$	$2,4 \cdot 10^{-3}$	$6,1 \cdot 10^{-3}$
Volume resistivity (IEC 60093, ohms-cm)	$1,4 \cdot 10^{+15}$		

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

Instruction of use

Remix each of the 2 components (parts A and B) every time before using.

1. Manually

1.1 - Catalysis

BLUESIL RTV 8352 LV A&B should be mixed thoroughly in proportions of 100:100 by weight, by hand or with an electric stirrer rotating at low speed, to prevent the entrapment of air into the mix

1.2 - Degassing

The mixture of the two components should be degassed to remove air bubbles which would reduce the mechanical and dielectric properties.

Degassing is generally performed in a vacuum of 30 to 50 mbars for about ten minutes, releasing the vacuum twice in the chamber.

Degassing will be quicker in a container with a large diameter to height ratio.

2. Mixing machine

Equipment consisting of two metering pumps enables the control of volumetric flow rates of parts A and B which are thoroughly mixed when they go through a dynamic mixing head or a static mixer.

3. Preparing of materials and pouring

BLUESIL RTV 8352 LV A&B can be poured on to metals, glass, laminates or moulded articles containing organic resins or silicones, or on all other materials.

The following procedure is recommended:

- Clean the surfaces and remove grease with the appropriate solvent. Silicone elastomer surfaces should first be roughened, if possible, by rubbing with sandpaper.
- Slowly pour the degassed **BLUESIL RTV 8352 LV A&B** mixture at the lowest point of the volume to be filled, to prevent the formation and entrapment of air bubbles. The container should not be filled completely, to allow the RTV to expand at working temperatures.

4. Curing

At a temperature of , **BLUESIL RTV 8352 LV A&B** cures in approximately 8 hours.

Curing can be accelerated by external heat, and the higher the temperature the faster curing will be. For example, at 120 °C the product cures in about 1 hour.

BLUESIL RTV 8352 LV A-B

5. Remarks

Curing of the RTV may be inhibited by contact with certain materials

- Natural or synthetic rubbers vulcanised with sulphur derivatives.
- RTV catalysed with metallic salts.
- PVC stabilised with tin salts.
- Epoxies catalysed with amines.

In case of doubt, a test should be made by pouring the mixture of the two components on to a small area of the object. It is also advisable to keep degassing apparatus exclusively for this type of RTV, as use with other substances might contaminate it and affect curing of **BLUESIL RTV 8352 LV A&B**.

Ensure that the packaging is hermetically sealed again each time it is used.

Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.
Packaging	<ul style="list-style-type: none"> • BLUESIL RTV 8352 LV A is available in <ul style="list-style-type: none"> ○ Drum of 200 KG (441 LB) • BLUESIL RTV 8352 LV B is available in <ul style="list-style-type: none"> ○ Drum of 200 KG (441 LB)
Storage and shelf life	When stored in its original packaging: BLUESIL RTV 8352 LV A may be stored at temperatures between -10°C / 14°F and 30°C / 86°F for up to 6 months from its date of manufacturing. BLUESIL RTV 8352 LV B may be stored at temperatures between -10°C / 14°F and 30°C / 86°F for up to 6 months from its date of manufacturing. Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.
Safety	Please consult the Safety Data Sheet of: BLUESIL RTV 8352 LV A and BLUESIL RTV 8352 LV B

Visit our website www.elkem.com/silicones/

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. Determination of the suitability of product for the uses and applications contemplated by users and others shall be the sole responsibility of users. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations. 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.