



Custom Formulation – Technical/User Data Sheet

Bellows Silicone (Z001)

Overview

The material is a 2-part 1:1 room temperature [RT] platinum addition cure system.

The material is supplied in dual cartridge dispensing system for use with the supplied mixing nozzles (G801) and dispensing gun (G802). Extra nozzles are available if required.

Platinum (or addition) cure systems do not shrink on curing.

User Instructions

Preparing the moulds

Open all of the moulds to be used and clean off any excess cured silicone from prior uses.

Ensure an even coating of Mould Release (MacSil spray is recommended) is applied to all internal mould surfaces and core.

Close the moulds and secure with appropriate clamps – ensure that each half of the injection hole is lined up together (to give a complete circular hole) – also ensure that the mould faces are fully shut.

Using the cartridge dispensing system

Ensure gun plunger is fully back (if not, press small chrome lever up and pull the plunger back)

Place cartridge into dispensing gun and lock in with hinged flap.

Remove end cap from cartridge by twisting and pump gun a little to ensure free flow of material from the two openings at the cartridge end (a small amount of material should be discharged from EACH hole. If this is not the case, remove any plug/blockage before continuing)

Fit new mixing nozzle by locating onto end of cartridge and twisting to lock.

Pump gun several times to advance the plunger until a little of the mixed material is ejected through the end of the nozzle. This initial quantity is recommended to be discarded as full or even mixing may not have been achieved.



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Injecting the silicone

Place the tip of the nozzle into the injection hole on the side of the tool and ensure this is well fitted.

Pump the gun several times until some silicone is seen to exit from the tool overflow – this means that the tool is sufficiently full. Take care not to over pack the mould.

When all of the moulds have been filled, it is recommended to leave the mixing nozzle connected to the cartridge if the process is to be repeated after curing & removal. Please note, that a new mixing nozzle will be needed for each repeat of the filling process – not for each mould but each time the set of moulds are filled, as the material will gel/set-up in the mixing nozzle while the moulds are in the oven.

Curing

While, chemically, the system is room temperature curing, the rate of cure can be accelerated by heating in an oven.

At elevated temp (eg, 100 deg C dry oven) - approx 20 minutes

At room temp (approx 22 deg C) - allow approx 1 hour

The material allows approx 2mins of work time before initial gelling occurs post dispensing (or, rather, from the time the two parts are mixed together in the nozzle) – this should be more than enough to fill all of the moulds.

Removal from mould

Remove from oven and cool mould in water until cold enough to handle.

Carefully remove the cured product from the mould taking care not to tear or otherwise damage it.

Note:

As with all new materials, it is recommended that performance/operation of this material is confirmed by the customer to be harmonious and compatible with any existing systems within which it is to be incorporated, prior to ongoing use, to ensure no unforeseen/adverse reactions occur.

Designed for external use only. Avoid use on broken skin.



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1. Identification of Substance & Company:

Product Name(s)	Custom Formulation: Lion Labs – Bellows Silicone
Product Code(s)	Z001
Medical Device Class	n/a
Product Category/Classification	General
Main Use	General purpose moulding silicone
Company	MBI (Wales) Limited 5 York Park Bridgend South Wales, UK. CF31 3TB
Tel (& Emergency Tel)	(44) (0) 1656 768566
Fax	(44) (0) 1633 896588
Document Version	3
Print Date	04/05/2017

2. Composition / Information on ingredients:

Chemical Nature	Dispersion of fumes silica particles in platinum catalysed (ie. vinyl terminated) silicone fluid
Hazardous Components	None according to EU Directive 1999/45/EC

3. Hazards Identification:

Critical Hazards	None according to EU Directive 1999/45/EC
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4. First Aid Measures:

Eye Contact	May cause temporary irritation. Irrigate with water for 15 mins, holding eyelid open.
Skin Contact	Remove excess and wash with soap and water.
Inhalation of Vapour	N/a.
Ingestion	May result in gastric disturbances. Seek medical advise

5. Fire Fighting Measures:

Hazards during firefighting	None
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6. Accidental Release Measures:

Personal Protection	Refer to Section 8.
Environmental Precautions	None.
Methods for clean-up	Collect with tissue or likewise and dispose as Section 13.



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7. Handling & Storage:

Handling	No special precautions necessary Observe good housekeeping practises (HSE guidance note CS17)
Storage	Store at room temperature or refrigerated.

8. Exposure Controls / Personal Protection:

General Protective Measures	None deemed necessary
Components with workplace parameters	None according to EU Directive 88/379/EC
Respiratory Protection	Not deemed necessary
Hand Protection	Not deemed necessary, gloves recommended
Eye Protection	Not deemed necessary, eye glasses recommended
Skin Protection	Not deemed necessary
Hygiene Measures	Do not eat, drink or smoke when handling product

9. Physical & Chemical Properties:

Physical Form	Viscous fluid
Colour	Clear
Odour	None
Flash Point	Not determined
Vapour pressure	N/a
Relative Density	Not determined
pH	Not determined
Viscosity	Not determined

10. Stability & Reactivity:

The product is stable under normal storage conditions (refer to Section 7)	
Incompatible materials	Presence of sulphur may interfere with proper curing reaction

11. Toxicological Information:

Long term experience of this product indicates no danger to health when used correctly

12. Ecological Information:

Degradation/elimination	Product does not degrade
Bioaccumulation	No evidence for bioaccumulation
Ecotoxic effects	This product is not classified as Dangerous to the Environment

13. Disposal Considerations:

Waste product should not be discharged directly into drains or waterways.	
Disposal of product and packaging should always comply with local and national regulations	
EU waste code number	No Waste Code Number available

14. Transport Information:

This product is not classified as Dangerous for Carriage



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15. Regulatory Information:

Symbol

Not subject to labelling

16. Other Information:

All information given in this Health & Safety Data Sheet is to the best of our knowledge true and accurate and is provided solely for making safety assessments. It is not a sales specification or an indication of suitability for a particular use nor does it replace the need for your own risk assessment. All information presented in accordance with EC Directive 2001/58/EC and is correct at date of publication and is given in good faith but without warranty. We cannot accept liability for any loss, damage or patent infringement resulting from the use of this information. As with all materials, care should be exercised when handling.