

1. Introduction

The LifeForm[®] range of materials are two component, addition curing RTV silicone materials specially designed for life-casting work.

The exceptional detail that can be replicated with LifeForm[®], plus the release properties of the rubber from skin and the toughness of the cured material make LifeForm[®] a far superior option for life-casting when compared with alternative materials such as Alginates.

2. Benefits

Key benefits of the LifeForm[®] range include:-

- 1:1 mixing ratio, easy to mix
- Two Speed - Regular and Slow
- Releases from skin/hair exceptionally well; provides incredible detail on removal
- Quick curing at room temperature
- Cures to a tough, elastic rubber suited for use with a wide range of resins
- LifeForm[®] can be bonded to itself to allow the user to apply multiple coats

3. Applications

LifeForm[®] is designed to allow artists to take detail mouldings of the human form, although it has also been used to take replicas of a wide range of articles:-

- Delicate sculptures for replicating
- Ornate plaster work where physical damage would be unacceptable
- Engineered components - the low shrinkage of LifeForm[®] provides extremely close replication
- Forensic items

4. Typical Properties – Liquid Materials

Property	Units	LifeForm [®] Regular LifeForm [®] Slow Part A	LifeForm [®] Part B
Viscosity @25°C	cps	Semi-fluid paste	Semi-fluid paste
Specific Gravity @25°C	°Shore A	~1-1.1	~1-1.1
Appearance	-	Pale Blue-Green	Pale Blue-Green

5. Typical Properties – Cured

Property	Units	Minimum	Maximum
Tensile Strength	N/mm ²	1.4	1.6
Elongation	%	>250	
Colour	-	Light Blue-Green	
Hardness	Shore A	25-35	

Description

Addition-curing RTV silicone rubber specifically designed for life-casting work

Form

Two-part viscous liquid

Mix Ratio

1:1 by weight
1:1 by volume

Typical Open Time

8-10 minutes (Regular)
13-17 minutes (Slow)

Typical Removal Time

12-15 minutes (Regular)
20-30 minutes (Slow)

6. Approximate Reactivity (dependant on ambient temperature)

Property		Typical Value	Units
Working time	LifeForm® Regular	8-10	Minutes
	LifeForm® Slow	13-17	Minutes
Removal time	LifeForm® Regular	12-15	Minutes
	LifeForm® Slow	20-30	Minutes
Curing time	LifeForm® Regular	16-24	Hours
	LifeForm® Slow	16-24	Hours

**based on 100g mix weight with 'working time' defined as the point at which the material cannot be spread any further; note this is gauged at 20°C - higher ambient temperatures will reduce this*

7. Mix Ratios

	LifeForm® Part A	LifeForm® Part B
By Weight/Volume	1 parts	1 part

8. Instructions for use – Preparation for mixing

- Select an appropriate mixing container:-
 - The container should be clean and dry and capable of holding twice the mix quantity.
 - Ideally should be Polyethylene – this will allow re-use.
- Prepare the mixing equipment (whether mixing by hand or drill):-
 - Ensure spatulas or mixers are clean and dry and suitable for the quantity to be mixed.
 - If using a drill, ensure it is set to an appropriate and safe speed.

9. Instructions for use – Mixing

- Weigh the LifeForm® Part A into the mixing container; add the corresponding quantity of LifeForm® Part B.
- Mix the material, moving the mixing equipment up and down and from side to side in the liquid.
- After ~1 minute of mixing, apply the material to the surface to be coated

10. Removal and Curing

- Allow a minimum of 10-15 minutes before attempting to remove (20-30 minutes for LifeForm® Slow)
- Once removed, if possible, leave for 1-2 hours to allow the rubber to build strength; full cure takes 16-24 hours

11. Packaging, storage and shelf-life

LifeForm® materials are available in a range of kit sizes - speak to your Mouldlife account manager for more details.

LifeForm® materials should be stored below 20°C. Under these conditions, shelf-life in the original, unopened containers is twelve months.

12. Safety Considerations

The usual safety precautions must be taken into consideration in case of contact with LifeForm® materials.

Detailed information is given in the Material Safety Data Sheet which must be reviewed before use.

If in doubt, contact your Mouldlife representative who can put you in touch with experts who can assist.

13. Product Disclaimer

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