

---

## TECHNICAL INFORMATION

### SEARCH Liquid Rubber Fingerprint Lifter Kit

Catalog No. LRL1234

---

<b>Application</b>	
	<p>Recovering powder-developed latent prints from surfaces that are not conducive for lifting with standard fingerprint lifters (i.e., metal foils, plastic bags, fabrics, dashboards, vinyl-covered seats, etc.). Also useful for making exact reproductions of impressions found in plastic materials (i.e., caulking, putty, clay, etc.).</p>

### INTRODUCTION

The Liquid Rubber Fingerprint Lifter Kit is used to lift powder-developed latent prints from surfaces that are wrinkled or creased, such as metal foils, plastic bags, and fabrics, that may be distorted by the pressure required using standard fingerprint lifters. It is especially useful on textured surfaces such as motor vehicle dashboards and leather or vinyl-covered seats, luggage, handbags, etc. Simply mix and pour the liquid rubber over the latent print and lift.



<b>Tools Required</b>	<ul style="list-style-type: none"> <li>• Liquid Rubber Lifter LRL4—a free-flowing, white silicone-based material. After the addition of a catalyst, the material is poured onto the desired location, and it will fill all indentations and crevices in minute detail.</li> <li>• Silicone Rubber Catalyst TM1.5—used to catalyze the Liquid Rubber.</li> <li>• Aluminum Mixing Bowls</li> <li>• Wooden Spatulas</li> <li>• Modeling Clay</li> <li>• Hinge Lifters</li> </ul>									
<b>Hazards/Safety Info</b>	<table border="1"> <thead> <tr> <th colspan="2"><u>HMSIS</u></th> </tr> </thead> <tbody> <tr> <td>H</td> <td>2</td> </tr> <tr> <td>F</td> <td>1</td> </tr> <tr> <td>R</td> <td>1</td> </tr> </tbody> </table>	<u>HMSIS</u>		H	2	F	1	R	1	<p><b>Caution!</b> Catalyst is a skin irritant. The user should wear latex rubber or nitrile gloves when using this material. For treatment due to contact, consult the appropriate MSDS—go to <a href="http://www.sirchie.com/support">www.sirchie.com/support</a>.</p>
<u>HMSIS</u>										
H	2									
F	1									
R	1									

Liquid rubber is also recommended for making exact reproductions of fingerprint impressions that do not require powder development, such as those found in plastic materials such as caulking, putty, and clay.

### KIT COMPONENT INFORMATION

Liquid Rubber Lifter No. LRL4

Liquid Rubber is a free-flowing, white silicone-based material. After the addition of a catalyst, the material is poured into the desired location, and it will fill all indentations and crevices in minute detail. Before adding the catalyst, stir the liquid rubber well, as it settles during storage. This base is workable for 1-2 minutes and will be tack-free in 30 minutes.

### Silicone Rubber Catalyst No. TM1.5

This material is used to catalyze the Liquid Rubber. The kit has been packaged in direct proportion, one vial of catalyst to 4 oz. of rubber gel. One vial of catalyst will react one jar of silicone material. For less than a jar, use in the same proportion (i.e. 1/2 vial to 1/2 jar).

### PROCEDURE

For tool marks, dusted latent prints and other small impressions, the Liquid Rubber does not need to be thinned. Before adding the catalyst, stir the silicone rubber well with a wooden spatula, as it settles during storage. This base is workable for 1-2 minutes and will be tack-free in 30 minutes.

When using the full jar of Liquid Rubber, add the full vial of catalyst to the jar and stir vigorously for approximately 20-30 seconds, and then apply the mixture to the surface.

When less than a full jar of liquid rubber is to be used, mix as follows:

1. Add the amount of the liquid rubber required to one of the aluminum mixing bowls
2. Add a like amount of the silicone rubber catalyst (i.e., ¼ jar of liquid rubber requires ¼ of the catalyst from the vial).
3. Stir vigorously with a wooden spatula for 30 seconds.
4. Apply the mixture to the surface.
5. Allow up to 30 minutes drying time.

The STM1003 Modeling Clay is provided for fashioning a clay dam around the area being processed to keep the liquid from running off of the surface.

After the silicone has set, it may be removed from the surface. Once the print is lifted from the irregular surface, the clear hinge lifters may be used to lift the print from the silicone mold. The lift should be

labeled "reversed" as it will be a reverse from the original orientation of the print.

References:

Baldwin, M/Sgt Hayden B., "Basic Equipment for Crime Scene Investigators", <<http://www.feinc.net/equipmt.htm> >

April 20, 2009.

Saferstein, Richard, Ph.D., "Criminalistics", New Jersey: Prentice Hall; 2001.

LRL1234 Contents: **Reorder No. LRL1234R**

- 1- LRL4 Liquid Rubber Lifter, 4 oz. (118ml)
- 1- STM1003 Modelling Clay, 1/4 lb. (113g)
- 5- CNA1061 Disposable Aluminum Mixing Containers
- 5- KCP202 Wood Spatulas
- 1- TM1.5 Silicone Rubber Catalyst, .5 fl. dr. (3.7ml)
- 20- 130LT1 Transparent Hinge Lifters, 1.5" x 2" (3.81cm x 5.08cm)
- 1- LRL2 Black Molded Copolymer Case; Dimensions: 8.5" x 7.75" x 3.625" (21.6cm x 19.7cm x 9.2cm); Weight: 1.8 lbs. (0.82kg)



*Liquid Rubber Fingerprint Lift from a highly irregular surface.*