

# SILPAK, Inc

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## Shrinking Rubber RU-REDUCE- IT Product Data Sheet

### Product Description and Applications

**RU-Reduce-It** is a one-component urethane elastomer that is blended with water and used to custom shrink pieces by 50%. Reduce-It has a very quick gel time of 20-30 seconds with a 10-15 minute cure time and is recommended for custom shrinking small parts—*Large parts not recommended because of limited gel time.* After adding and blending water, quickly pour into *Platinum Silicone* or a Post Cured (@150F for 6 hours) Tin Base Silicone Mold.

**Available Sizes:** Pint, Quart and Gallon *\*\*Requires Extra Shipping Cost—Flammable*

### Unique Characteristics

- Easy to Process 1-1 Mix Ratio
- Low Cost Shrinkage by 50%
- Good for Small Part Size Reduction

### PHYSICAL PROPERTIES (TYPICAL VALUES) UNVULCANIZED

Viscosity (cps): 1000  
Mix Ratio, By Volume: 1 to 1 with water  
Color: Amber  
Shelf Life: 6 months

### REACTIVITY DATA

Gel Time : 30 seconds  
De-Mold Time: 10-15 minutes  
Dry Time: Up to 1 week, depending on thickness and ambient conditions

### MIXING, CASTING AND CURING INSTRUCTIONS:

Calculate the volumetric amount of material needed to fill mold cavity. For a 50% shrink rate, blend 1 part resin to 1 part water. Quickly blend the two components together and immediately pour into rubber mold—*Platinum Silicone* or post cured (@150F for 6 hours) *Tin Base Silicone mold*. Compound will begin to foam and slightly expand. Allow 10 to 15 minutes before demolding part—part is slightly fragile and will feel rubbery and firm, like high-density foam. Place part in an area that is dry, where it won't be disturbed, and allow the shrinkage process to begin, which may take up to a week or more, depending on part thickness—the thicker the part the longer the drying time. *\*\*If using a mold other than Silicone RTV, ensure that a compatible mold release (MR-150 Petroleum based) is applied prior to pouring Reduce It.*

*\*\*Not Recommended to mix more than a Pint*

### Re-Mold Part

Once part has completely shrunk, another mold should be made. Molds can be made out of rubber or plaster. If part needs to be altered because of distortional imperfections, a silicone rubber mold can be made and a second cast done using our carveable *Classic Clay*, which is easily melted and casted @ 200F.

### Adjusting Shrinkage

Using a 1 to 1 mix ratio will render an approximate shrink of 50%.

### STORAGE/SHELF LIFE:

Material should be stored in warm, dry area with lids secured tightly. Once containers are opened, material should be used in a short time period—6 months. Pre-test any aged material before using.

THE INFORMATION AND DATA CONTAINED HEREIN ARE BASED ON INFORMATION WE BELIEVE RELIABLE. EACH USER OF THE MATERIAL SHOULD THOROUGHLY TEST ANY APPLICATION, AND INDEPENDENTLY CONCLUDE SATISFACTORY PERFORMANCE BEFORE COMMERCIALIZING. SUGGESTIONS OF USES SHOULD NOT BE TAKEN AS INDUCEMENTS, TO INFRINGE ANY PARTICULAR PATENT.