

# Universal™ Mold Release

**Release Agent For Moldmaking And Casting**



www.smooth-on.com

## PRODUCT OVERVIEW

Universal™ Mold Release Agent is formulated especially for mold making and casting, and works well with most liquid rubber and liquid plastic products. It will release mold rubbers (such as polyurethanes and polysulfides) from properly prepared models. Sealing porous models (wood, plaster, concrete) or certain modeling clays (containing water or sulfur) with Smooth-On SuperSeal™ or other sealer may be necessary. Universal™ Mold Release is effective over a broad temperature range from 70°F to 500°F.

If using silicone rubber, seal model surface with SuperSeal™ only. Do not use Universal™ Mold Release. Universal™ Mold Release also easily releases a variety of casting materials (epoxies, Smooth-On liquid plastics, etc.) from cured rubber molds. This product has a limited shelf life and should be used as soon as possible. Properly used, Universal™ Mold Release improves molding efficiency for a variety of casting applications and will actually lengthen the life of your production mold.

Universal™ Mold Release is available in aerosol spray or economical liquid form (one gallon, 5 gallon and 55 gallon drum.)

## PROCESSING RECOMMENDATIONS

**PREPARATION...CONTENTS FLAMMABLE:** Keep product away from flame and all ignition sources. Use this product in a properly ventilated area with at least room size ventilation. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk. **Store and use material at room temperature (73°F/23°C).**

**Apply a Sealing Agent if Necessary** – Porous surfaces (concrete, plaster, etc.) often require a sealing agent followed by a release agent when releasing liquid mold making materials. Follow directions on the mold material technical bulletin before proceeding.

## UNIVERSAL™ MOLD RELEASE AEROSOL APPLICATION

### USE ONLY WITH ADEQUATE VENTILATION:

1. Shake well before using.
2. Hold can 12 in./30 cm. from surface to be sprayed.
3. Apply a continuous light mist coating to model or mold surface and surrounding forms.
4. Using a soft brush, brush the release agent over entire surface of model or mold in order to break the surface tension and minimize air entrapment.
5. Apply another light mist coating of release agent and let stand for 5 minutes.
6. You are now ready to apply mold rubber or cast into a cured rubber mold.

## UNIVERSAL™ MOLD RELEASE LIQUID APPLICATION

1. Can be put into non-aerosol sprayer (**Kwikee™ Sprayer** available from Smooth-On), deck sprayer, or applied with soft brush.
2. Apply thorough thin coating over entire surface of model or mold.
3. Allow surface solvents to evaporate for 5 minutes.
4. Compressed air or hair dryer may be used to blow off any excess that has pooled.
5. Repeat application and allow to dry.
6. You are now ready to apply mold rubber or cast into a cured rubber mold.

**Because no two applications are quite the same, a small test application to determine suitability is recommended if performance of this material is in question.**

## **PAINTING A FINISHED CASTING...**

One method for applying paint to a casting is to remove release agent from casting with a solvent such as isopropyl alcohol or acetone. Next, apply one to two coats of auto body primer (available at most auto parts stores) and let dry. Finally, apply acrylic or similar base paint.

***There are better ways to address the issue of "Painting a Finished Casting" and still gain the benefits of using a mold release. Visit [www.smooth-on.com](http://www.smooth-on.com) and visit our FAQ section under "Casting" to learn how.***

### **Safety First!**

The material safety data sheet (MSDS) for this or any Smooth-On product should be read before using and is available on request. All Smooth-On products are safe to use if directions are read and followed carefully.

***Be careful.***

UNIVERSAL AEROSOL - CONTENTS UNDER PRESSURE. FLAMMABLE: Keep product away from heat, sparks, flames or open flame. Do not puncture, or incinerate container. Do not expose to heat or store at temperatures above 120°F/48°C. Use only with adequate ventilation. Contains halogenated hydrocarbon/ether blend, CAS # n/a.

UNIVERSAL LIQUID - FLAMMABLE: Keep product away from flame and all ignition sources. Use this product in a properly ventilated area with at least room size ventilation.

***First Aid:*** If swallowed, do not induce vomiting. Call physician immediately. If overcome by vapors, remove person from contaminated area. Do not give epinephrine. For eye contact, flush eyes thoroughly with water for 15 minutes. For skin contact, wash thoroughly with warm soapy water.

***Note:*** Inhalation of high concentrations of vapor can cause central nervous system depression and/or heart irregularities. May generate toxic gases on contact with open flame. EYE IRRITANT. Wear eye protection. Avoid contact with eyes and prolonged or repeated contact with skin. Use only as directed. Keep out of reach of children.

***IMPORTANT*** - The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe a copyright or patent. User shall determine suitability of the product for the intended application and assume all associated risks and liability.



**Call Us Anytime With Questions About Your Application.**

Toll-free: **(800) 381-1733**

Fax: **(610) 252-6200**

The new [www.smooth-on.com](http://www.smooth-on.com) is loaded with information about moldmaking, casting and more.