



## **UNIVERSAL™** MOLD RELEASE

### ***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 **SuperSeal™** or other sealer may be necessary. If using silicone rubber, seal model surface with SuperSeal™ only. Do not use UMR.

UMR also easily releases a variety of casting materials (epoxies, liquid plastics, etc.) from cured rubber molds. Properly used, Universal Mold Release improves molding efficiency for a variety of casting applications and will actually lengthen the life of your production mold.

UMR is available in aerosol spray or economical liquid form (one gallon, 5 gallon and 55 gallon drum).

### **DIRECTIONS**

#### **Aerosol - USE ONLY WITH ADEQUATE VENTILATION:**

- Shake well before using.
- Hold can 12 in./30cm. From surface to be sprayed.
- Apply a continuous light mist coating to model or mold surface and surrounding forms.
- 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.
- Apply another light mist coating of release agent and let stand for 20 minutes.
- You are now ready to apply mold rubber or cast into a cured rubber mold.

#### **Liquid Application**

- Can be put into non-aerosol plant sprayer, deck sprayer, or applied with soft brush.
- Apply thorough thin coating over entire surface of model or mold.
- Allow surface solvents to evaporate for 5 minutes.
- Compressed air or hair dryer may be used to blow off any excess that has pooled.
- Repeat application and allow to dry.
- You are now ready to apply mold rubber or cast into a cured rubber mold.

**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.

#### ***POWDER COATING TECHNIQUE: Minimizing Post Production Finishing***

Powder coating a mold prior to casting resin (i.e. SC 300 white) will minimize post-production finishing.

#### **POWDER COATING:**

- Prior to casting, apply Universal Mold Release to mold.
- Follow with a powder coating of ATH (aluminum trihydrate), baby powder, talc, or corn starch.
- Remove excess powder from mold with air hose or turn mold upside down and shake.
- Cast resin into mold.

- Demolded casting will be dry with a paintable matte finish.
- There is no release agent to be removed prior to painting.

### ***SAFETY FIRST***

The Material Safety Data Sheet (MSDS) for this or any other product should be read prior to use and is available at [www.SCULPT.com](http://www.SCULPT.com). All Smooth-On products are safe to use if directions are read and followed carefully.

**Be careful.** CONTENTS UNDER PRESSURE. 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 120G/48C. Use only with adequate ventilation. Contains halogenated hydrocarbon/ether blend, CAS # n/a.

**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 upon a patent. User shall determine the suitability of the product for the intended application and assume all risk and liability whatsoever in connection therewith.

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

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