

# UreCoat™ Matting Powder System

Creates Matte Finishes On Urethane and Epoxy



www.smooth-on.com

## PRODUCT OVERVIEW

**UreCoat™ Matting Powder** is dissolved in solvent (99% isopropyl alcohol or acetone) and then mixed with UreCoat™ Urethane to create a coating that can be applied to a variety of surfaces to eliminate gloss or shine. Coating can be brushed or sprayed using an HVLP spray gun onto some surfaces to create a lasting matte finish. Compatible surfaces include Smooth-On flexible urethane elastomers, urethane foams and epoxies.

Use this system to create matte surface finishes on artificial vines, tree branches or bark, rocks, etc. for themed environment effects. It is also suitable for creating a matte finish on movie and cosplay props, costume elements, animatronic skins, taxidermy, latex mask repair and more. In addition to providing a matte finish, the cured UreCoat™ coating is highly water, impact, ultra-violet and abrasion resistant.

## PROCESSING RECOMMENDATIONS

**PREPARATION AND PRECAUTIONS...** Store and use all material materials at room temperature (73°F/23°C). This product has a limited shelf life and should be used as soon as possible. Powder should be kept as dry as possible to minimize chance of moisture reaction with urethane. Keep containers air-tight closed when not in use. Because no two applications are quite the same, a small test application to determine suitability for your project is recommended if performance of this material is in question. **Wearing a NIOSH respirator is required when using this product.**

**SAFETY...** Read the UreCoat™ technical bulletin prior to using. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk. Because this product is mixed with either alcohol or acetone solvent, use only in a properly ventilated area and wear a NIOSH respirator. If spraying, a Tyvek® suit with independent air supply is recommended.

**WARNING - FLAMMABLE:** Keep solvents and solvent mixtures away from all ignition sources.

**PROCEDURE** - You must use an accurate gram scale to be successful. You will first measure and mix Matting Powder with solvent. You will then add this mixture to UreCoat™, mix all components and apply.

## MEASURING AND MIXING FOR BRUSH APPLICATION

**MEASURING...** When measuring, use an accurate gram scale. The following chart provides an example ratio for a brushable mix. For best results, use new, clean 99% isopropyl alcohol or acetone to dilute Matting Powder mixture.

UreCoat™ Matting Powder	99% Isopropyl Alcohol Or Acetone	UreCoat™		Pot Life	Cure Time
		Part A	Part B		
10 parts	200 Parts	100 parts	10 parts	30-45 min.	24 hours

**STEP 1. MEASURE AND MIX SOLVENT AND MATTING POWDER** - Due to flammability of solvents, we recommend hand mixing only with flat edge wooden paint stirring stick. Sift proper amount of UreCoat™ Matting Powder into solvent and mix thoroughly. Important: Be sure to scrape the sides and bottom of the mixing container several times while mixing.

**STEP 2. MEASURE AND MIX URECOAT™** - Read technical bulletin for UreCoat™ and follow instructions. After dispensing proper amounts of UreCoat™ into a mixing container, mix thoroughly for 2 - 3 minutes using a square edged mixing stick. Aggressively scrape the sides and bottom of the mixing container several times. Use the square edge of the stick to bring material off of the sides of the container and blend.

**STEP 3. COMBINE MATTING POWDER MIXTURE AND URECOAT™ MIXTURE** - After dispensing mixed UreCoat™ and Matting Powder mixture into a mixing container, mix thoroughly for 2 - 3 minutes using a square edged mixing stick. Aggressively scrape the sides and bottom of the mixing container several times. Use the square edge of the stick to bring material off of the sides of the container and blend.

**BRUSH ON APPLICATION... Apply In Thin Layers By Brush** - Use a disposable chip brush or foam brush to apply material with UreCoat™ added. Apply a thin layer to the surface, minimizing the brush strokes. Wait 30 minutes (at 73°F/23°C) for material to partially cure and apply another layer if needed. **Do not let previous layer fully cure if applying another layer as delamination between layers may result.**

## **MEASURING AND MIXING FOR SPRAY APPLICATION USING HVLP SPRAY GUN**

**MEASURING...** When measuring, use an accurate gram scale. The following chart provides an example ratio for a sprayable mix. For best results, use new, clean acetone to dilute Matting Powder concentrate.

UreCoat™ Matting Powder	Acetone	UreCoat™		Pot Life	Cure Time
		Part A	Part B		
10 parts	400 Parts	100 parts	10 parts	45 min.	24 hours

**STEP 1. MEASURE AND MIX ACETONE AND MATTING POWDER** - Due to flammability of solvents, we recommend hand mixing only with flat edge wooden paint stirring stick. Sift proper amount of UreCoat™ Matting Powder into solvent and mix thoroughly. Important: Be sure to scrape the sides and bottom of the mixing container several times while mixing. The use of a strainer, such as a cone funnel strainer (190 micron) is recommended after mixing Matting Powder with the solvent.

**STEP 2. MEASURE AND MIX URECOAT™** - Read technical bulletin for UreCoat™ and follow instructions. After dispensing proper amounts of UreCoat™ into a mixing container, mix thoroughly for 2 - 3 minutes using a square edged mixing stick. Aggressively scrape the sides and bottom of the mixing container several times. Use the square edge of the stick to bring material off of the sides of the container and blend.

**STEP 3. COMBINE MATTING POWDER MIXTURE AND URECOAT™ MIXTURE** - After dispensing mixed UreCoat™ and Matting Powder mixture into a mixing container, mix thoroughly for 2 - 3 minutes using a square edged mixing stick. Aggressively scrape the sides and bottom of the mixing container several times. Use the square edge of the stick to bring material off of the sides of the container and blend.

**SPRAYING...** Use an HVLP spray gun with a nozzle size of 1.4 mm. Pour mixture into HVLP gun canister and spray in a thin layer. Wait 30 minutes (at 73°F/23°C) for material to partially cure and apply another layer if needed. **Do not let previous layer fully cure if applying another layer as delamination between layers may result.**

**CURING...** After application of final layer, let all layers cure for at least 24 hours at 73°F/23°C before handling. Adding UreCoat™ Matting Powder slows the pot life and cure time of these materials. Material may appear "dry" but will remain tacky until fully cured and can be easily marred, overworked, or displaced if handled during this tacky state.

### **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.**

**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.

#### **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.**

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 mold making, casting and more.

072021-JR