

TAMIYA TAM87075

Tamiya TAM87075 Liquid Surface Primer Instruction Manual

1. INTRODUCTION

This manual provides instructions for the safe and effective use of Tamiya TAM87075 Liquid Surface Primer. This product is designed to prepare plastic, metal, and wooden model surfaces by smoothing small scratches, filling minor imperfections, and providing an ideal base for subsequent paint layers.

2. SAFETY INFORMATION

WARNING: FLAMMABLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED. CAUSES SKIN AND EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. USE ONLY IN A WELL-VENTILATED AREA.

Always read and understand the safety data sheet (SDS) before use. Keep out of reach of children and pets.

- **Ventilation:** Use in a well-ventilated area or outdoors. Avoid breathing vapors. If using indoors, ensure adequate cross-ventilation and consider using a respirator.
- **Personal Protective Equipment (PPE):** Wear appropriate chemical-resistant gloves (e.g., nitrile), eye protection (safety glasses or goggles), and protective clothing to prevent skin contact.
- **Fire Hazard:** Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Store in a cool, well-ventilated place.
- **First Aid:**
 - **Inhalation:** If inhaled, remove person to fresh air and keep comfortable for breathing. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. If irritation occurs, seek medical advice.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Control Center or doctor.
 - **Ingestion:** Do NOT induce vomiting. Immediately call a Poison Control Center or doctor.
- **California Proposition 65 Warning:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



Image showing the Tamiya Liquid Surface Primer bottle alongside three hazard pictograms: a flame (flammable), an exclamation mark (irritant), and corrosive symbols (corrosion to skin/eyes and surfaces). This product requires careful handling.

3. PRODUCT OVERVIEW

The Tamiya Liquid Surface Primer (Model TAM87075) is a specialized lacquer-based primer designed for hobby and model building. It comes in a 40ml glass bottle and is formulated to provide a smooth, uniform surface for painting.

3.1 Key Features

- Effectively smooths small scratches, holes, and gaps on model surfaces.
- Suitable for use on plastic, metal, and wooden models.
- Can be applied with a modeling brush for small areas.
- Can be thinned with Tamiya Lacquer Thinner for airbrush application.
- Fast-drying formula.



Close-up view of the Tamiya Liquid Surface Primer bottle, highlighting the product name and brand logo. The label indicates it is a 40ml liquid surface primer.

4. SETUP AND PREPARATION

4.1 Surface Preparation

Before applying the primer, ensure the model surface is clean, dry, and free from dust, grease, or mold release agents. Lightly sand the surface with fine-grit sandpaper (e.g., 600-1000 grit) to remove any major imperfections and create a slight tooth for better adhesion. Clean off any sanding dust thoroughly.

4.2 Thinning (for Airbrush Application)

For airbrush application, the primer must be thinned. Use only **Tamiya Lacquer Thinner** for dilution. Do not use acrylic thinners or water, as these are incompatible and will cause the primer to thicken or separate.

- **Recommended Ratio:** A common starting point is a 1:1 ratio of primer to thinner. Adjust as needed based on your airbrush and desired consistency.
- **Mixing:** Mix the primer and thinner in a separate mixing cup. Stir thoroughly until a uniform, smooth consistency is achieved.

CAUTION: Always mix in a well-ventilated area and wear appropriate PPE.

5. OPERATING INSTRUCTIONS

5.1 Brush Application

For small areas, scratches, or fine detail work, the primer can be applied directly from the bottle using a modeling brush.

1. Stir the primer gently in the bottle before use to ensure consistent pigment distribution.
2. Dip a clean modeling brush into the primer, wiping off excess on the bottle rim.
3. Apply a thin, even coat over the target area. Avoid applying too thickly, as this can obscure details and prolong drying time.
4. Allow the first coat to dry completely before applying additional coats if necessary. Multiple thin coats are preferable to one thick coat.

5.2 Airbrush Application

For larger surfaces or a smoother finish, use an airbrush with properly thinned primer.

1. Ensure your airbrush is clean and functioning correctly.
2. Pour the thinned primer into the airbrush cup.
3. Set your airbrush pressure to a suitable level, typically between 15-25 PSI, depending on your equipment and desired spray pattern.
4. Apply the primer in light, even passes, maintaining a consistent distance from the model surface. Overlap each pass slightly to ensure full coverage.
5. Apply multiple thin coats rather than one heavy coat to prevent pooling and loss of detail.
6. Allow each coat to flash dry (become tacky) before applying the next.

6. DRYING AND CURING

Tamiya Liquid Surface Primer is fast-drying, but proper curing is essential for durability and optimal adhesion of subsequent paint layers.

- **Touch Dry:** Typically within 10-20 minutes, depending on humidity and temperature.
- **Recoat Time:** Allow at least 30 minutes to 1 hour between coats.
- **Full Cure Time:** For best results, allow the primer to cure for a full 24 hours before sanding or applying topcoats. This ensures maximum hardness and adhesion.

NOTE: Drying times may vary based on ambient temperature, humidity, and coat thickness.

7. MAINTENANCE AND CLEANING

7.1 Cleaning Tools

Immediately after use, clean all brushes and airbrush equipment with **Tamiya Lacquer Thinner** or a dedicated lacquer cleaner. Do not allow the primer to dry in your tools, as it will be difficult to remove.

- **Brushes:** Rinse thoroughly in lacquer thinner, then wash with soap and water. Reshape bristles and allow to dry.
- **Airbrush:** Flush the airbrush with lacquer thinner until clear. Disassemble and clean individual components as needed, paying close attention to the nozzle and needle.

7.2 Bottle Storage

Ensure the bottle cap is tightly sealed after each use to prevent the primer from drying out or evaporating. Store in a cool, dry, well-ventilated place, away from direct sunlight and ignition sources.

8. TROUBLESHOOTING

Common Issues and Solutions

Issue	Possible Cause	Solution
Primer appears too thick or clumpy	Not stirred properly; incorrect thinner used; primer has partially dried.	Stir thoroughly. If airbrushing, thin with Tamiya Lacquer Thinner. Ensure bottle is sealed when not in use.
Poor adhesion or peeling	Surface not clean; surface too smooth; primer not fully cured.	Clean and lightly sand the surface before priming. Allow full cure time.
Rough or grainy finish	Primer applied too thickly; airbrush pressure too high/low; primer drying in air before hitting surface.	Apply thinner coats. Adjust airbrush pressure. Ensure proper thinning.
Bubbles or pinholes	Primer applied too thickly; air trapped in primer; surface contamination.	Apply thinner coats. Stir gently to avoid introducing air. Ensure surface is clean.

9. SPECIFICATIONS

Attribute	Detail
Model Number	TAM87075
Brand	TAMIYA
Product Type	Liquid Surface Primer
Volume	40 Milliliters (1.4 Fl Oz)
Paint Type	Lacquer
Color	Grey
Finish Type	Matte
Special Feature	Fast-Drying

Attribute	Detail
Surface Recommendation	Plastic, Metal, Wood
Indoor/Outdoor Usage	Indoor
Full Cure Time	24 Hours
UPC	885297284995

10. STORAGE AND DISPOSAL

10.1 Storage

Store the Tamiya Liquid Surface Primer in its original tightly sealed container in a cool, dry, well-ventilated area. Keep away from direct sunlight, heat sources, open flames, and incompatible materials. Ensure the storage area is inaccessible to children and pets.

10.2 Disposal

Dispose of unused primer and contaminated cleaning materials (rags, thinners) in accordance with all local, regional, national, and international regulations. Do not pour down drains or dispose of with household waste. Contact your local waste management authority for proper disposal methods for hazardous waste.

11. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your Tamiya Liquid Surface Primer, please refer to the official Tamiya website or contact Tamiya customer service directly. Keep your purchase receipt as proof of purchase.

Tamiya USA Contact Information: (Refer to official Tamiya USA website for current contact details)

Website: www.tamiyausa.com