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**Walfront 9687283011**

# Walfront 2 PCS PCB Curing Solder Mask Ink Instruction Manual

Model: 9687283011

## 1. INTRODUCTION

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The Walfront PCB Curing Solder Mask Ink is designed for the repair and insulation of Printed Circuit Boards (PCBs). This UV-curable ink provides a protective layer that hardens upon exposure to ultraviolet (UV) light or sunlight, making it ideal for repairing electronic components in devices such as mobile phones and computers. It helps secure wires and prevents potential circuit breakages.

## 2. SAFETY INFORMATION

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Always prioritize safety when working with chemical products. Please observe the following precautions:

- Wear appropriate personal protective equipment, including gloves and eye protection, to prevent skin and eye contact.
- Work in a well-ventilated area to avoid inhaling fumes.
- Keep the product away from children and pets.
- In case of contact with skin, wash thoroughly with soap and water. For eye contact, flush with plenty of water and seek medical attention.
- Store the product in a cool, dark, and light-proof container to prevent premature curing.

## 3. PRODUCT OVERVIEW

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This package contains two syringes of UV-curable solder mask ink. The ink is formulated to harden quickly when exposed to UV light, providing excellent insulation and protection for PCB electronic components. It is particularly useful for securing delicate wires and preventing short circuits.

# Solder Mask Ink



Image: Walfont Solder Mask Ink product title image.

## 2Pcs PCB Solder Resist Ink



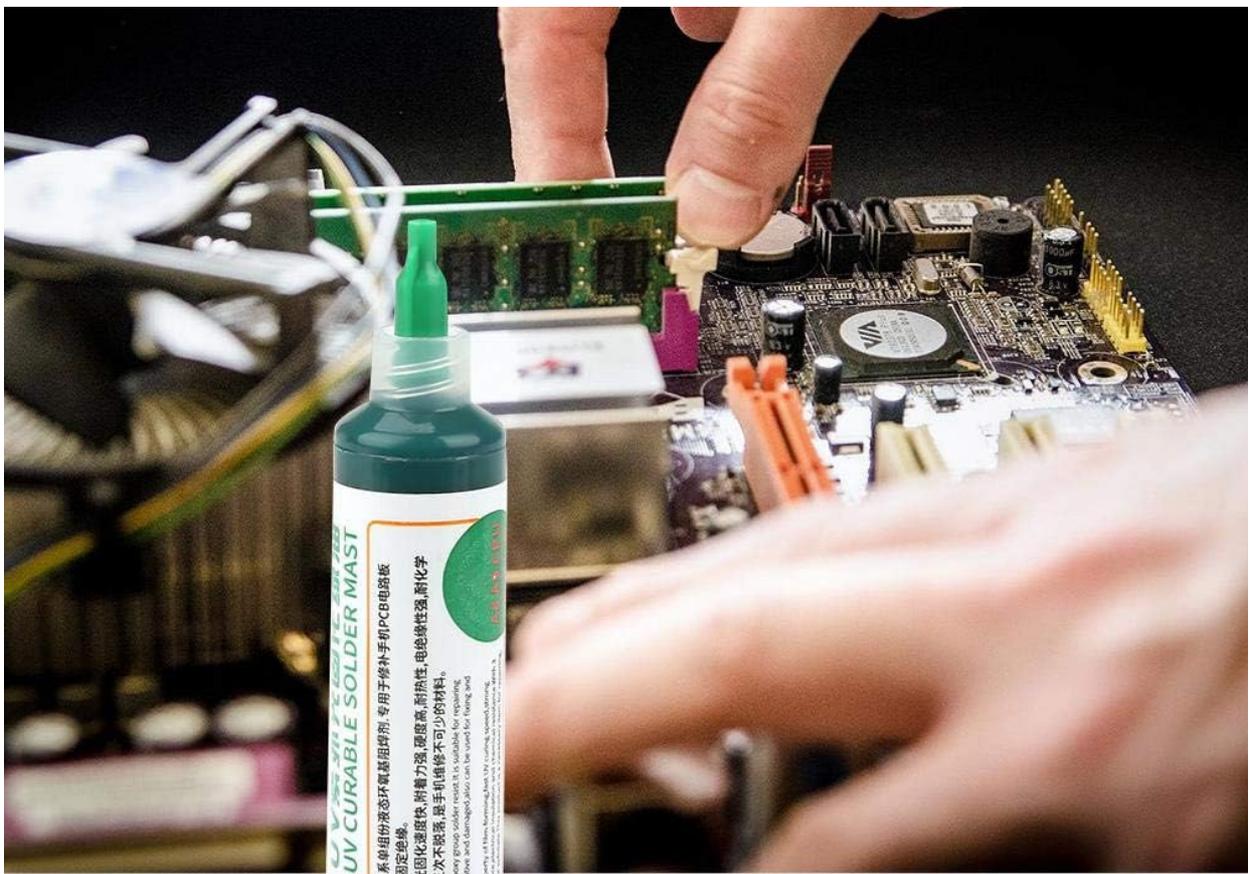
Image: Two syringes of Walfont PCB Solder Resist Ink.

## 4. SETUP

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Before application, ensure your workspace is clean and well-lit. Prepare the PCB surface by cleaning any debris or residue. The solder mask ink is supplied in a syringe. Note that a plunger is not included with the syringe. To dispense the ink:

1. Remove the protective cap from the syringe nozzle.
2. To dispense the ink, you may need to use a separate plunger (if available) or gently push the back of the syringe with a suitable tool (e.g., a pen or a small rod) to extrude the ink.
3. Alternatively, you can dispense a small amount onto a clean surface (like a piece of paper) and apply it using a fine brush or toothpick for precise application.



# SOLDER MASK INK

USED FOR THE INSULATION AND PROTECTION OF PCB ELECTRONIC COMPONENTS

Image: Close-up of the Walfront solder mask ink syringe nozzle, showing the dispensing tip.



Image: A hand holding the Walfront solder mask ink syringe, highlighting the nozzle for application.



Image: Close-up of the plunger end of the Walfront solder mask ink syringe, indicating where pressure can be applied for dispensing.

## 5. OPERATING INSTRUCTIONS

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Follow these steps for effective application and curing of the solder mask ink:

1. **Prepare the PCB:** Ensure the PCB surface is clean and free of any contaminants.
2. **Apply the Ink:** Apply a thin, even layer of the solder mask ink to the desired area of the PCB. For best results, apply between a plastic film and the circuit board. Avoid thick applications, as this can lead to messy edges and uneven curing.
3. **Curing Process:** The ink cures when exposed to UV light. The curing time will vary depending on the intensity of your UV light source.
  - For strong UV light sources (e.g., a 'parking lot light' type UV lamp), partial curing may take 50-60 seconds, with full curing in approximately one minute.
  - For smaller applications or less intense UV sources (e.g., a tactical daylight LED flashlight), curing may take around 2 minutes for partial hardening. Black light LED flashlights may not be effective.
  - Some users have found that adding a little heat (e.g., from a hot air station at approximately 200°C for 90 seconds) can accelerate the hardening process, especially if the UV light alone is insufficient.
4. **Intermediate Cleaning (Optional):** For optimal results, especially with larger applications, consider a two-stage curing process. Cure the ink to about 50% hardness, then carefully wipe away any uncured material before completing the full cure. This helps prevent uncured residue from affecting the final bond.
5. **Final Inspection:** After full curing, the solder mask should be hard and firmly adhered to the PCB.

Your browser does not support the video tag.

Video: Demonstration of UV solder mask ink application and curing on a PCB. This video shows the process of applying the green solder mask ink to a circuit board and then curing it with UV light.

Your browser does not support the video tag.

Video: A short clip demonstrating the curing process of solder mask ink. This video illustrates how the ink hardens under UV light.

## 6. MAINTENANCE

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Proper maintenance ensures the longevity and effectiveness of the solder mask ink:

- **Storage:** Always store the solder mask ink in its original light-proof container in a cool, dry place, away from direct sunlight or any UV light sources. This prevents premature hardening.
- **Cleaning Tools:** Uncured solder mask ink can be cleaned with acetone. Use acetone sparingly to avoid affecting cured areas.

## 7. TROUBLESHOOTING

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If you encounter issues during application or curing, consider the following:

- **Ink Not Curing:** This ink is designed for UV curing and will not cure in air. Ensure the ink is exposed to a sufficient UV light source. If using a UV lamp, verify its wavelength and intensity. Some UV LED flashlights may not be strong enough. Applying a little heat (e.g., 200°C for 90 seconds) in conjunction with UV light can aid curing.
- **Sticky or Wet Residue:** If the ink remains sticky or wet after initial curing, it might be due to insufficient UV exposure or an overly thick application. Try extending the curing time or applying a thinner layer. Wiping away partially cured, sticky material and then re-curing can also help.
- **Poor Adhesion:** Ensure the PCB surface is thoroughly cleaned before application. Any oils, dirt, or residues can prevent proper adhesion.
- **No Plunger Included:** The product is supplied in a syringe format, but a plunger is not included. Users typically use a separate tool to push the ink out or dispense it onto a separate surface for application.

## 8. SPECIFICATIONS

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Feature	Detail
Product Dimensions	3.94 x 0.79 x 0.79 inches
Item Weight	1.8 ounces
Model Number	9687283011
Manufacturer	Walfront
Curing Method	UV Light / Sunlight
Application	PCB Repair, Insulation, Wire Securing

## 9. WARRANTY AND SUPPORT

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For any questions regarding the product, its application, or troubleshooting, please contact Walfront customer support. Specific warranty details may vary; please refer to your purchase documentation or contact the seller for more information.