

## SEM 40507

# SEM 40507 Dual-Mix Quick Set 50 Second Urethane Adhesive Instruction Manual

## 1. INTRODUCTION

The SEM 40507 Dual-Mix Quick Set 50 Second is a high-performance, fast-curing two-component black urethane adhesive. It is specifically formulated for efficient automotive plastic repair, including bumpers and tabs, and for bonding various small plastic, metal, and aluminum parts. This manual provides essential information for safe and effective use of the product.

## 2. SAFETY INFORMATION

**DANGER: CAUSES SERIOUS EYE IRRITATION. CAUSES SKIN IRRITATION. MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. READ CAUTIONS ON BACK PANEL.**

Always prioritize safety when handling this product. Failure to follow safety precautions can result in serious injury.

- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses with side shields, chemical-resistant gloves (e.g., nitrile), and protective clothing.
- **Ventilation:** Use in a well-ventilated area. If adequate ventilation is not available, use a respirator with an organic vapor cartridge.
- **Skin Contact:** Avoid direct skin contact. In case of contact, wash thoroughly with soap and water.
- **Eye Contact:** Avoid eye contact. In case of contact, flush eyes immediately with plenty of water for at least 15 minutes and seek medical attention.
- **Inhalation:** Avoid breathing vapors. If inhaled and symptoms occur, move to fresh air. If breathing difficulties persist, seek medical attention.
- **Ingestion:** Do not ingest. If swallowed, do not induce vomiting. Seek immediate medical attention.
- **Disposal:** Dispose of contents and container in accordance with local, regional, national, and international regulations.

For detailed safety information, refer to the Safety Data Sheet (SDS) available from the manufacturer.

## 3. PRODUCT OVERVIEW

SEM 40507 Dual-Mix Quick Set 50 Second is engineered for rapid repairs, offering a quick working time and set time to expedite automotive bodywork. Its dual-mix cartridge system ensures precise mixing of the two components for optimal performance.

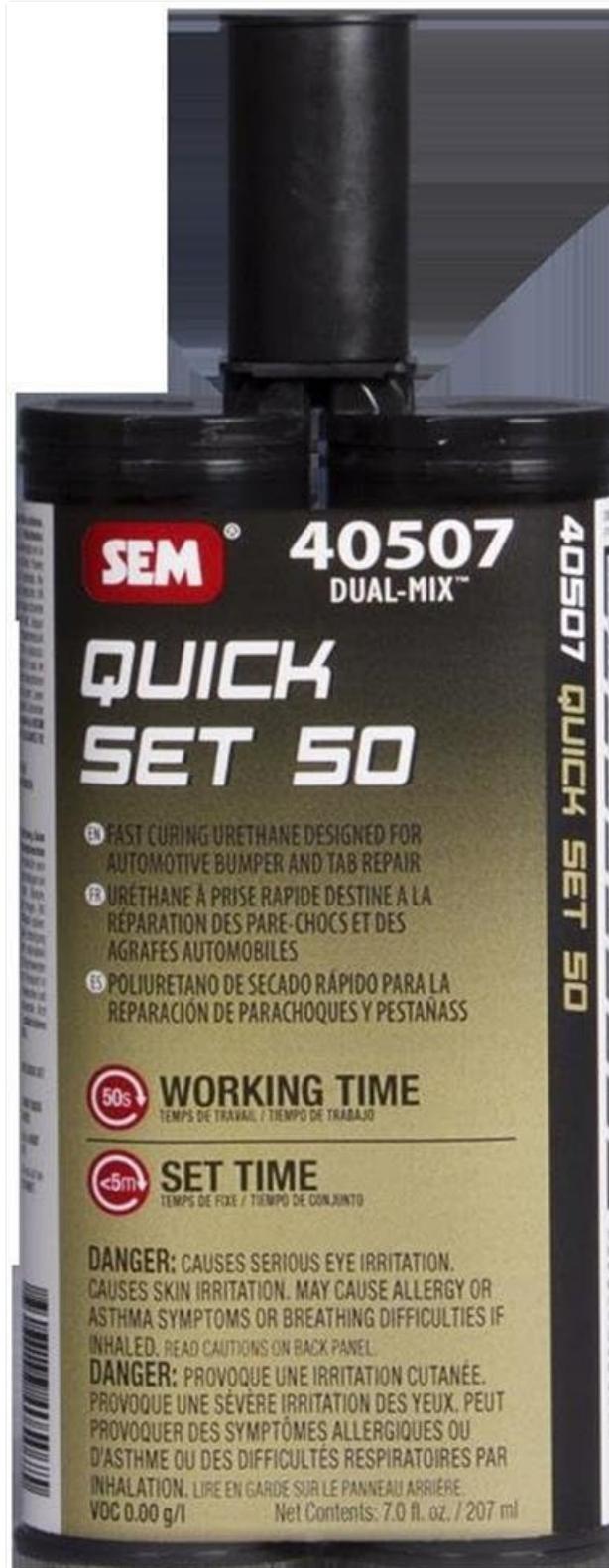


Image: SEM 40507 Dual-Mix Quick Set 50 Second Urethane Adhesive cartridge. This image displays the product packaging, highlighting the brand 'SEM', model '40507 Dual-Mix', and 'Quick Set 50' branding, along with key features like '50s Working Time' and '<5m Set Time'. Safety warnings are also visible on the label.

### Key Features:

- **Fast Curing:** Designed for quick turnaround times.
- **Working Time:** Approximately 50 seconds, allowing for precise positioning.
- **Set Time:** Less than 5 minutes for initial cure.
- **Versatile:** Suitable for automotive plastic, metal, and aluminum repairs.
- **VOC:** 0.00 g/l.

- **Net Contents:** 7.0 fl. oz. / 207 ml.

## 4. SETUP AND PREPARATION

### 4.1 Surface Preparation

1. **Clean:** Ensure the repair area is clean, dry, and free from grease, oil, wax, dirt, and other contaminants. Use an appropriate automotive cleaner.
2. **Sand:** Lightly sand the repair area with 80-180 grit sandpaper to create a mechanical profile for optimal adhesion. Featheredge the repair area.
3. **Dust Removal:** Remove all sanding dust with compressed air and a clean cloth.

### 4.2 Product Preparation

1. **Temperature:** Ensure the product is at room temperature (65-75°F / 18-24°C) before use for proper flow and cure.
2. **Dispensing Gun:** Load the SEM 40507 cartridge into a compatible dual-mix dispensing gun.
3. **Mixing Nozzle:** Remove the cartridge cap and attach a new, clean static mixing nozzle securely.
4. **Purge:** Dispense a small amount of material (approximately 1-2 inches) onto a scrap surface until both components are flowing evenly and consistently through the nozzle. This ensures proper mixing and prevents initial clogs.

## 5. OPERATING INSTRUCTIONS

### 5.1 Application

1. Apply the mixed adhesive directly to the prepared repair area.
2. Work quickly and efficiently due to the product's fast working time.
3. Ensure adequate material is applied to fill gaps or bond surfaces.

### 5.2 Working and Set Times

- **Working Time:** Approximately 50 seconds. This is the time available to manipulate and position the parts after application.
- **Set Time:** Less than 5 minutes. The adhesive will begin to harden and hold its shape within this timeframe.
- **Full Cure:** Allow sufficient time for full cure before sanding or further processing. Refer to the product's technical data sheet for specific full cure times, which can vary with temperature and humidity.

### 5.3 Finishing

- Once fully cured, the repaired area can be sanded, primed, and painted according to standard automotive repair procedures.

## 6. MAINTENANCE AND STORAGE

### 6.1 Tool Cleaning

- Immediately after use, remove the mixing nozzle from the cartridge.

- Clean the dispensing gun thoroughly to prevent adhesive buildup.
- Dispose of used mixing nozzles properly.

## 6.2 Product Storage

- Store the cartridge with the original cap replaced (or a new cap if available) in a cool, dry place.
- Avoid exposure to direct sunlight and extreme temperatures.
- Keep out of reach of children and pets.

## 7. TROUBLESHOOTING

- **Issue: Adhesive not curing or curing too slowly.**

*Solution:* Ensure the product was stored correctly and is not expired. Verify that the mixing nozzle was properly attached and purged to ensure an even mix of both components. Temperature can affect cure time; ensure application is within recommended temperature ranges.

- **Issue: Mixing nozzle clogs prematurely.**

*Solution:* This product has a very fast set time. Ensure you are working quickly. Always purge the nozzle before initial use. If clogging occurs during application, replace the nozzle immediately. Do not attempt to clear a clogged nozzle by force, as this can damage the cartridge or dispensing gun.

- **Issue: Poor adhesion.**

*Solution:* Re-evaluate surface preparation. Surfaces must be clean, dry, and properly abraded. Ensure sufficient adhesive was applied and parts were positioned within the working time.

## 8. SPECIFICATIONS

Attribute	Value
Manufacturer	SEM
Model Number	40507
Item Weight	8 ounces
Product Dimensions	11 x 3.1 x 1.6 inches
Special Features	Fast Drying

## 9. WARRANTY AND SUPPORT

SEM products are manufactured to high-quality standards. For specific warranty information regarding the SEM 40507 Dual-Mix Quick Set 50 Second, please refer to the product packaging or the official SEM website. In case of technical questions or support needs, please contact SEM customer service directly through their official channels.

*Note: This manual provides general guidelines. Always refer to the product's specific label instructions and Safety Data Sheet (SDS) for the most current and detailed information.*