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- › [Rust-Oleum](#) /
- › [Rust-Oleum 9100 System Epoxy Mastic Instruction Manual](#)

## Rust-Oleum 9186402

# Rust-Oleum 9100 System Epoxy Mastic Instruction Manual

Model: 9186402

## INTRODUCTION

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The Rust-Oleum 9100 System <340 VOC DTM Epoxy Mastic is a high-performance, direct-to-metal (DTM) coating designed for interior and exterior applications, particularly on floors. This two-component epoxy provides excellent durability, chemical resistance, and waterproofing properties, making it suitable for demanding industrial and commercial environments. This manual provides detailed instructions for proper preparation, application, and maintenance to ensure optimal performance and longevity of the coating.

## SAFETY INFORMATION

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Always prioritize safety when working with epoxy coatings. Read and understand all safety data sheets (SDS) before use. Wear appropriate personal protective equipment (PPE), including safety glasses, chemical-resistant gloves, and respiratory protection (e.g., a respirator with organic vapor cartridges) in poorly ventilated areas. Ensure adequate ventilation during application and curing. Avoid contact with skin and eyes. In case of contact, flush immediately with plenty of water and seek medical attention. Keep out of reach of children and pets. Do not ingest. This product is flammable; keep away from heat, sparks, and open flames.

## SETUP AND SURFACE PREPARATION

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### Required Tools and Materials

- Rust-Oleum 9100 System Epoxy Mastic (Part A and Part B)
- Measuring containers for accurate mixing
- Mechanical mixer (drill with mixing paddle)
- Application tools: roller covers (e.g., 3/8" nap solvent-resistant), brushes, or spray equipment
- Safety glasses, chemical-resistant gloves, respirator
- Cleaning solvents (e.g., xylene, acetone) for tools
- Drop cloths or plastic sheeting

## Surface Preparation Steps

Proper surface preparation is critical for adhesion and performance.

1. **Clean:** Remove all dirt, grease, oil, loose paint, rust, and other contaminants. Use a suitable degreaser if necessary.
2. **Repair:** Fill cracks and repair damaged areas with appropriate patching compounds.
3. **Profile:** For concrete, shot blasting or acid etching is recommended to achieve a concrete surface profile (CSP) of 2-3. For metal, power tool cleaning (SSPC-SP3) or commercial blast cleaning (SSPC-SP6) is recommended.
4. **Dry:** Ensure the surface is completely dry before application. Moisture can cause adhesion issues.
5. **Temperature:** Apply when air and surface temperatures are between 50°F (10°C) and 100°F (38°C).



Image: A can of Rust-Oleum 9100 System Epoxy Mastic in Navy Gray. This image illustrates the product packaging.

## OPERATING (MIXING AND APPLICATION)

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### Mixing Instructions

1. The Rust-Oleum 9100 System Epoxy Mastic is a two-component product (Part A: Base, Part B: Activator).
2. Pour the entire contents of Part B (Activator) into the container of Part A (Base).
3. Mix thoroughly with a mechanical mixer (drill with mixing paddle) for 3-5 minutes. Scrape the sides and bottom of the container to ensure all material is fully incorporated.
4. Allow the mixed material to "induct" or "sweat-in" for 30 minutes before use. This allows for proper chemical reaction.
5. Once mixed, the pot life is approximately 4-6 hours at 70°F (21°C). Higher temperatures will reduce pot life. Only mix what can be applied within this timeframe.

### Application Instructions

Apply the mixed epoxy mastic evenly to the prepared surface.

- **Roller Application:** Use a 3/8" nap solvent-resistant roller cover. Apply in thin, even coats. Avoid over-rolling, which can introduce air bubbles.

- **Brush Application:** For edges, corners, and small areas, use a high-quality synthetic brush.
- **Spray Application:** For large areas, conventional or airless spray equipment can be used. Consult the product data sheet for specific spray equipment recommendations (tip size, pressure).
- **Coverage:** The theoretical coverage is 80-120 sq ft per gallon, depending on surface porosity and texture. Aim for a wet film thickness (WFT) of 6-8 mils.
- **Recoat Time:** Allow 8-24 hours between coats at 70°F (21°C). Do not exceed 7 days between coats without proper surface preparation (e.g., light sanding).

## DRYING AND CURING

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Drying and curing times are dependent on temperature, humidity, and film thickness.

- **Touch Dry:** Approximately 4-6 hours at 70°F (21°C).
- **Light Foot Traffic:** Approximately 24 hours at 70°F (21°C).
- **Heavy Traffic/Full Cure:** Approximately 7 days at 70°F (21°C). Avoid heavy traffic, chemical exposure, or immersion until full cure is achieved.
- Lower temperatures and higher humidity will extend drying and curing times.

## MAINTENANCE

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Once fully cured, the Rust-Oleum 9100 System Epoxy Mastic provides a durable and easy-to-clean surface.

- **Regular Cleaning:** Clean the coated surface with mild detergents and water. Avoid abrasive cleaners or harsh chemicals that could damage the finish.
- **Spill Cleanup:** Promptly clean up spills to prevent staining or chemical attack, especially during the initial curing period.
- **Inspection:** Periodically inspect the coating for any signs of wear, damage, or delamination. Address minor issues promptly to prevent further deterioration.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Poor Adhesion	Improper surface preparation (dirt, grease, moisture), insufficient surface profile.	Ensure thorough cleaning, degreasing, and proper surface profiling. Allow surface to dry completely.
Bubbling/Pinholes	Over-mixing, applying too thickly, outgassing from porous substrate, applying in direct sunlight or high temperatures.	Mix at recommended speed, apply in thinner coats, prime porous surfaces, avoid extreme temperatures.
Soft/Tacky Film	Improper mix ratio, insufficient mixing, low temperature, high humidity.	Ensure accurate mix ratio and thorough mixing. Apply within recommended temperature and humidity ranges. Allow adequate cure time.
Uneven Finish	Uneven application, inconsistent roller pressure, improper roller nap.	Apply evenly with consistent pressure. Use appropriate roller nap for the surface.

## SPECIFICATIONS

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Attribute	Detail
Brand	Rust-Oleum
Model Number	9186402
Product Type	Epoxy Mastic Coating
Color	Navy Gray
Finish Type	Semi-Gloss
Item Volume	1 Gallon (per can)
Unit Count	256.0 Fluid Ounces (per can)
Paint Type	Epoxy
Specific Uses	Interior/Exterior, Floors
Surface Recommendation	Floors
Item Form	Liquid
Is Waterproof	True
Coverage	80-120 sq ft/gallon
Item Weight	12.63 pounds (per can)
Material	Epoxy Resin
UPC	020066918606

## STORAGE AND DISPOSAL

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- **Storage:** Store product in a cool, dry, well-ventilated area away from direct sunlight, heat sources, and incompatible materials. Keep containers tightly closed when not in use. Do not store below 40°F (4°C) or above 100°F (38°C).
- **Disposal:** Dispose of unused product and empty containers in accordance with all local, state, and federal regulations. Do not pour down drains or dispose of in landfills without proper treatment. Consult local authorities for proper disposal methods for hazardous waste.

## WARRANTY AND SUPPORT

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Specific warranty information for the Rust-Oleum 9100 System Epoxy Mastic is typically provided at the point of purchase or on the product packaging. For detailed warranty terms and conditions, please refer to the official Rust-Oleum website or contact their customer support directly. For technical assistance, product data sheets, or safety data sheets (SDS), please visit the Rust-Oleum official website or contact their technical support department.

*Note: This manual provides general guidance. Always refer to the most current product data sheet (PDS) and safety data sheet (SDS) for complete and up-to-date information.*

