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› CERAKOTE® V-Series Satin Silver Coating User Manual

CERAKOTE V-119 Satin Silver

CERAKOTE® V-Series Satin Silver Coating User Manual

Model: V-119 Satin Silver | Brand: CERAKOTE

1. INTRODUCTION TO CERAKOTE® V-SERIES COATING

The CERAKOTE® V-Series Satin Silver coating (Model V-119) is an advanced oven-cure ceramic-polymer coating designed for exceptional performance on various substrates, including metals and polymers. This product is part of the V-Series line, known for its thin-film application, which is ideal for tight tolerance components, often eliminating the need for masking during application.

It provides unmatched corrosion resistance, chemical resistance, and durability. The unique ceramic-polymer technology ensures both flexibility and robust physical performance, making it suitable for a wide range of applications such as automotive components, firearms, aerospace parts, knives, and consumer electronics.



Figure 1: A 4oz tester bottle of CERAKOTE V-119 Satin Silver coating. The label highlights its V-Series designation and color, along with important instructions for straining and venting. This product is formulated for oven cure applications.

2. PRODUCT SPECIFICATIONS

Attribute	Detail
Brand	CERAKOTE
Model	V-119 Satin Silver
Finish Type	Satin
Item Volume	4 Fluid Ounces (Tester Size)
Special Features	UV Resistant, Corrosion Resistant
Surface Recommendation	Metal (also suitable for Polymers and more)

Attribute	Detail
Application Type	Oven Cure
GTIN (UPC)	00840397900336
ASIN	B0CLPGDDN1

3. SURFACE PREPARATION

Proper surface preparation is critical for optimal adhesion and performance of CERAKOTE coatings.

3.1 Degreasing

- Thoroughly clean the substrate to remove all oils, grease, dirt, and contaminants.
- Use a high-quality degreaser such as acetone or a specialized industrial degreaser.
- Ensure the surface is completely dry before proceeding.

3.2 Abrasive Blasting (Recommended for Metals)

- For metal substrates, abrasive blasting is highly recommended to create a proper surface profile for mechanical adhesion.
- Use aluminum oxide abrasive (100-120 grit) at 80-100 PSI.
- Blast evenly to achieve a consistent, uniform profile.
- After blasting, blow off any residual abrasive media with clean, dry compressed air.
- Avoid touching the blasted surface with bare hands to prevent oil transfer.

3.3 Outgassing (For Metals)

- Place blasted metal parts in an oven at 250°F (121°C) for 30 minutes to outgas any trapped oils or moisture.
- Allow parts to cool to room temperature before coating.

4. APPLICATION INSTRUCTIONS

CERAKOTE V-Series coatings are typically applied using an HVLP (High Volume Low Pressure) spray gun.

4.1 Mixing and Straining

- Shake the CERAKOTE bottle thoroughly for at least 5 minutes to ensure proper mixing of solids.
- Strain the coating through a 100-150 mesh filter directly into the spray gun cup. This removes any potential particulates that could clog the nozzle.

4.2 Spray Gun Setup

- Use an HVLP spray gun with a 0.8mm to 1.0mm nozzle.
- Set air pressure to 20-25 PSI at the gun.
- Adjust fluid control to achieve a fine, even mist.

4.3 Coating Application

- Apply the coating in thin, even coats. Over-application can lead to runs or an uneven finish.
- Maintain a consistent distance from the substrate (typically 4-6 inches).
- Overlap each pass by 50% to ensure full coverage.
- Apply 1-2 coats to achieve the desired film thickness (typically 0.5-1.0 mil).

- Allow 5-10 minutes flash time between coats for solvents to evaporate.

5. CURING PROCESS (OVEN CURE)

CERAKOTE V-Series coatings require oven curing to achieve their full hardness and protective properties.

- After application, allow the coated parts to air dry for 15-30 minutes to allow for solvent evaporation.
- Place the parts in a preheated oven.
- Cure at 250°F (121°C) for 2 hours.
- Ensure proper ventilation during the curing process.
- Allow parts to cool completely to room temperature before handling or assembly. Full hardness is typically achieved after 24 hours post-cure.

6. CARE AND MAINTENANCE

Once cured, CERAKOTE V-Series coatings are highly durable and require minimal maintenance.

- Clean coated surfaces with mild soap and water or a non-abrasive cleaner.
- Avoid harsh chemicals, abrasive pads, or solvents that could damage the coating.
- For optimal longevity, avoid prolonged exposure to extreme temperatures beyond the coating's specified limits.

7. TROUBLESHOOTING COMMON ISSUES

Issue	Possible Cause	Solution
Poor Adhesion	Improper surface preparation (oils, no blast profile), insufficient cure.	Ensure thorough degreasing and proper abrasive blasting. Verify oven temperature and cure time.
Orange Peel Texture	Too low air pressure, too thick application, gun too far from surface.	Increase air pressure slightly, apply thinner coats, move gun closer.
Runs or Sags	Too much material applied, gun too close, insufficient flash time.	Apply thinner coats, increase flash time between coats, maintain proper gun distance.
Uneven Finish	Inconsistent spray pattern, improper overlap, clogged nozzle.	Ensure consistent spray technique and 50% overlap. Strain coating and clean nozzle.

8. SAFETY INFORMATION

Always prioritize safety when working with coatings.

- **Ventilation:** Work in a well-ventilated area or use a spray booth with proper exhaust.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including:
 - Respirator (NIOSH-approved for organic vapors and particulates)
 - Safety glasses or goggles
 - Chemical-resistant gloves
 - Protective clothing
- **Flammability:** Keep away from open flames, sparks, and heat sources. Do not smoke while handling.

- **Storage:** Store in a cool, dry place away from direct sunlight and incompatible materials. Keep container tightly closed.
- **Disposal:** Dispose of unused coating and contaminated materials according to local regulations.
- **First Aid:** In case of contact with skin or eyes, flush immediately with plenty of water. If inhaled, move to fresh air. Seek medical attention if irritation persists.

Refer to the product's Safety Data Sheet (SDS) for comprehensive safety information.

9. WARRANTY INFORMATION

CERAKOTE products are manufactured to high standards. For specific warranty details regarding the V-119 Satin Silver coating, please refer to the official CERAKOTE website or contact their customer support directly. General warranties typically cover manufacturing defects.

10. CUSTOMER SUPPORT

For further assistance, technical questions, or support regarding your CERAKOTE V-Series Satin Silver coating, please visit the official CERAKOTE website or contact their customer service department.

Official Website: www.cerakote.com

You can also visit the [CERAKOTE Store on Amazon](#) for more product information and resources.

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