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> VHT SP148 High Temperature Engine Enamel Light Gray Primer Instruction Manual

## VHT SP148

# VHT SP148 High Temperature Engine Enamel Light Gray Primer Instruction Manual

Model: SP148 | Brand: VHT

## INTRODUCTION

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This manual provides detailed instructions for the proper use and application of VHT SP148 High Temperature Engine Enamel Light Gray Primer. This product is designed to provide a durable, heat-resistant base coat for engine components, preparing surfaces for VHT Engine Enamel topcoats. Adherence to these instructions will ensure optimal performance and longevity of the finish.

**Important Safety Information: This product is an aerosol and contains flammable propellants. Use in a well-ventilated area. Avoid contact with skin and eyes. Wear appropriate personal protective equipment, including gloves and eye protection. Keep away from heat, sparks, open flames, and hot surfaces. Do not puncture or incinerate container. Keep out of reach of children.**

## SETUP AND SURFACE PREPARATION

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Proper surface preparation is critical for achieving a durable and long-lasting finish. Follow these steps carefully:

- Clean the Surface:** Thoroughly clean the engine component to remove all grease, oil, dirt, rust, and loose paint. Use a degreaser or wax and grease remover. Rinse thoroughly and allow to dry completely.
- Sand the Surface:** Lightly sand the surface with 320-400 grit sandpaper to create a profile for better adhesion. For bare metal, ensure all rust is removed and the surface is clean and dry.
- Masking:** Mask off any areas not intended for painting, such as hoses, wires, or machined surfaces, using painter's tape and masking paper.
- Environmental Conditions:** Ensure the ambient temperature is between 60°F (16°C) and 95°F (35°C) and humidity is below 60%. Avoid painting in direct sunlight or on hot surfaces.



Image: VHT SP148 High Temperature Engine Enamel Light Gray Primer aerosol can. This image shows the product packaging, an 11 oz aerosol can of light gray primer.

## OPERATING (APPLICATION)

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Follow these steps for proper application of the primer:

1. **Shake Can:** Shake the aerosol can vigorously for at least one minute after the mixing ball begins to rattle. Continue to shake occasionally during application.
2. **Test Spray:** Before applying to the actual component, test spray on a piece of scrap material to ensure proper spray pattern and color consistency.
3. **Application Technique:** Hold the can 10-12 inches (25-30 cm) from the surface. Apply the primer in light, even coats using a steady, sweeping motion. Avoid heavy coats to prevent runs and drips.
4. **Multiple Coats:** Apply 2-3 light coats, allowing 5-10 minutes flash-off time between coats. The primer should be dry to the touch before applying subsequent coats.
5. **Drying Time:** Allow the primer to dry for at least 1 hour before applying VHT Engine Enamel topcoat.
6. **Curing Process:** For optimal heat resistance and durability, the painted component should be cured. Refer to the VHT Engine Enamel topcoat instructions for specific curing procedures, as the primer cures along with the topcoat. Generally, this involves baking the component or running the engine at increasing temperatures.

## MAINTENANCE

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To ensure the longevity of your VHT primer and future usability of the aerosol can:

- **Clean Nozzle:** After each use, invert the can and spray until only clear propellant comes out. This prevents the nozzle from clogging.
- **Storage:** Store the can in a cool, dry place away from direct sunlight and temperatures above 120°F (49°C).

## TROUBLESHOOTING

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If you encounter issues during application, consider the following:

- **Uneven Spray/Spitting:** Ensure the can is shaken thoroughly before and during use. The nozzle may be partially clogged; clean it by inverting the can and spraying, or replace the nozzle if necessary.
- **Poor Adhesion:** This is typically due to inadequate surface preparation. Ensure the surface is completely

clean, dry, and lightly sanded. Oil, grease, or rust will prevent proper adhesion.

- **Runs or Drips:** This occurs from applying coats too heavily or holding the can too close to the surface. Apply lighter, more even coats from the recommended distance.
- **Slow Drying:** High humidity or low temperatures can extend drying times. Ensure application is done within the recommended environmental conditions.

## SPECIFICATIONS

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Feature	Specification
Brand	VHT
Model Number	SP148
Color	Light Gray
Finish Type	Flat
Size	11 oz (312g)
Item Volume	11 Fluid Ounces
Unit Count (per pack)	66.0 Ounce (for 6 cans)
Paint Type	Enamel Primer
Specific Uses	Engine Components
Surface Recommendation	Metal
Item Form	Aerosol
Full Cure Time	1 Hour (before topcoat application, full cure with topcoat)
Coverage	72-90 sq ft/pack (approximate for 6 cans)
UPC	010155001487

## WARRANTY AND SUPPORT

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VHT products are manufactured to high-quality standards. For specific warranty information or technical support regarding the VHT SP148 High Temperature Engine Enamel Light Gray Primer, please refer to the manufacturer's official website or contact their customer service department directly. Keep your purchase receipt for any warranty claims.