SainSmart 93-PS-A

SainSmart 700W HVLP Electric Paint Sprayer Gun

USER MANUAL

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1. Important Safety Information

Before operating the SainSmart 700W HVLP Electric Paint Sprayer Gun, please read and understand all safety instructions. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Use appropriate protective equipment, including safety glasses, gloves, and a respirator, to avoid direct contact with skin and eyes and inhalation of paint fumes.
- Ensure adequate ventilation in the work area to prevent the buildup of hazardous fumes.
- Always unplug the sprayer when not in use, during assembly, disassembly, or cleaning.
- Exercise caution when adjusting paint flow and during cleaning procedures.
- Never point the paint sprayer at people or animals.
- Keep children and pets away from the work area.

2. Product Overview

The SainSmart 700W HVLP Electric Paint Sprayer Gun is designed for efficient and precise application of various coatings. Featuring a powerful 700W motor and a large 1200ml container, it provides superior control and a fine finish with minimal overspray. This sprayer is suitable for a wide range of projects, including fences, furniture, walls, and doors.

Image: The SainSmart 700W HVLP Electric Paint Sprayer Gun, shown with its various nozzles, dust blowing joint, cleaning connector, and other accessories.

Key Features:

- **700W High Power Motor:** Delivers efficient and consistent spray performance.

- **1200ml Container:** Large capacity reduces the need for frequent refills.

- **4 Nozzles (1mm, 1.5mm, 2mm, 3.0mm):** Versatile for different paint types and project sizes.

- **3 Spray Patterns:** Horizontal, Vertical, and Circular for varied application needs.

- **Adjustable Flow Control:** Allows precise regulation of paint output to prevent waste and achieve desired effects.

- **Unique Accessories:** Includes a dust blowing joint for surface preparation and a cleaning connector for easy maintenance.

- **Easy to Clean:** Detachable design and included cleaning tools simplify post-use cleanup.

3. Product Components

Familiarize yourself with the parts of your SainSmart Paint Sprayer Gun:

Image: An exploded view diagram of the paint sprayer, labeling its main components.

1. Cap Nut

2. Air Cap

3. Copper Nozzles (1.0mm, 1.5mm, 2.0mm, 3.0mm)

4. Flow Adjusting Knob

5. Motor Housing

6. Container Release Button

7. Suction Pipe

8. Container (1200ml)

9. Power Cable (9.8ft)

Included Accessories:

- Dust Blowing Joint
- Cleaning Connector
- 5 x Paper Funnels
- Viscosity Cup
- Cleaning Needle
- Cleaning Brush
- User Manual

4. Setup Instructions

Proper setup ensures optimal performance and a smooth painting experience.

1.0mm	1.5mm	2.0mm	3.0mm
60-80DINS	15-25DINS	25-35DINS	40-50DINS
Sealers, Stains, Enamel & Varnish, Dyes Table, Chair, Bicycle, Shutter, Cabinets, Wooden artwork, Model	Railings, Window Framer, Pipes, Boat, Yard, Furniture, Doors, Metal Fences	Internal Wall, Wooden Fence, Wooden Pile, Corridor	External Walls, Outdoor Floors, Sports Field Line

Image: A visual guide illustrating the six main steps for assembling and preparing the paint sprayer for use.

4.1. Assembly

1. **Attach Container:** Securely twist the paint container onto the sprayer body until it is firmly attached.

2. **Select Nozzle:** Choose the appropriate nozzle for your paint and project. Refer to the nozzle selection guide below.

3. **Insert Nozzle:** Place the selected nozzle into the air cap and secure it with the cap nut.

4.2. Paint Preparation & Dilution

Most paints require dilution to achieve the correct viscosity for spraying. The maximum recommended DINS viscosity for this sprayer is 120.

1. **Dilute Paint:** Use the included viscosity cup to measure the paint's viscosity. Dilute the paint with the manufacturer's recommended thinner (water for latex, mineral spirits for oil-based, etc.) until it flows through the viscosity cup within the recommended time for your chosen nozzle.

2. **Filter Paint:** Use the included paper funnels to filter the paint before pouring it into the container. This prevents clogs and ensures a smooth spray.

3. **Fill Container:** Pour the prepared paint into the 1200ml container.

4.3. Nozzle Selection Guide

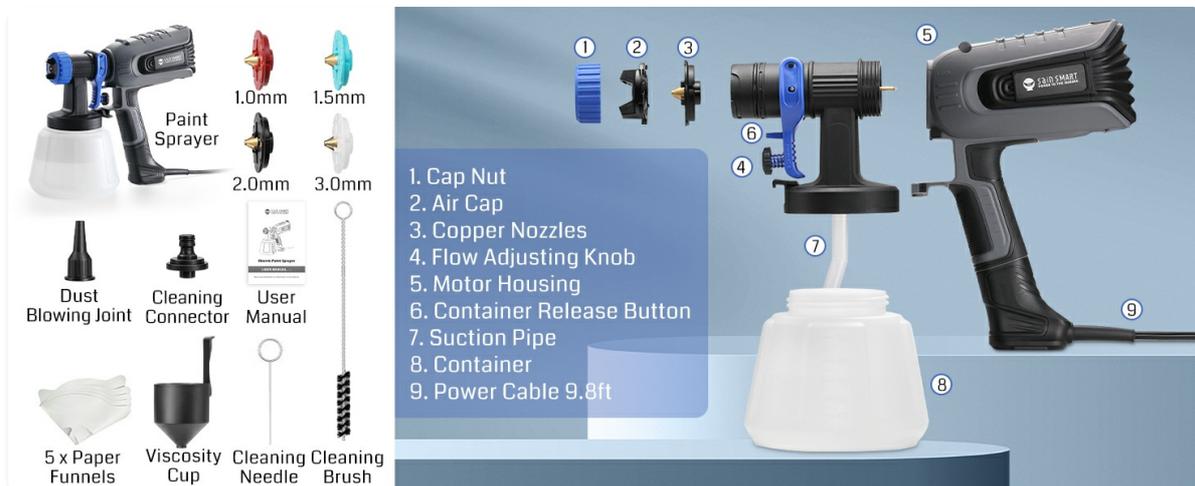Choosing the correct nozzle size is crucial for optimal spray quality and efficiency.

Image: A chart detailing the recommended DINS viscosity ranges and suitable applications for each of the four nozzle sizes (1.0mm, 1.5mm, 2.0mm, 3.0mm).

Nozzle Size	Recommended Viscosity (DINS)	Typical Applications
1.0mm	60-80 DINS	Sealants, Stains, Enamel & Varnish, Dyes, Small Artwork, Models
1.5mm	15-25 DINS	Railings, Window Frames, Pipes, Boats, Yard Furniture, Doors, Metal Fences
2.0mm	25-35 DINS	Internal Walls, Wooden Fences, Wooden Piles, Corridors
3.0mm	40-50 DINS	External Walls, Outdoor Floors, Sports Field Lines

5. Operating Instructions

5.1. Surface Preparation with Dust Blowing Joint

Before applying paint, ensure the surface is clean and free of dust and debris for optimal adhesion and finish.

Image: A hand holding the paint sprayer with the dust blowing joint attached, demonstrating its use to clear dust from a flat surface.

Attach the dust blowing joint to the sprayer. Use it to blow away loose dust, sawdust, or other small particles from the surface you intend to paint. This step helps achieve a smoother, more professional finish.

5.2. Adjusting Spray Patterns

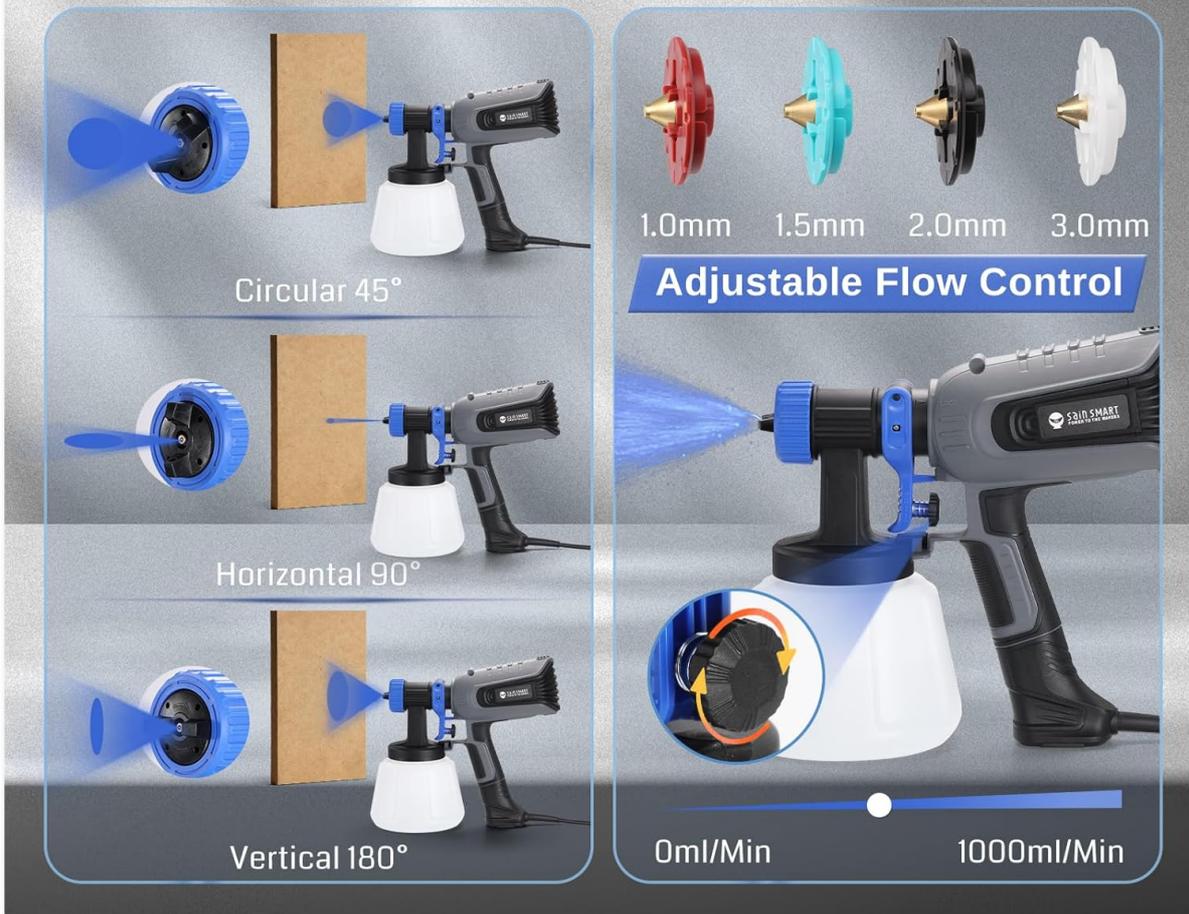The sprayer offers three distinct spray patterns to suit various painting tasks.

Image: A visual representation of the three adjustable spray patterns (circular, horizontal, vertical) and the four interchangeable nozzles.

- **Circular Pattern (45°):** Ideal for small areas, corners, and detailed work.
- **Horizontal Pattern (90°):** Best for spraying vertical surfaces like fences or walls.
- **Vertical Pattern (180°):** Suitable for spraying horizontal surfaces such as decks or ceilings.

To change the spray pattern, rotate the air cap to align the desired pattern with the nozzle. Always test the spray pattern on a scrap piece of material before applying to your project.

5.3. Adjusting Flow Control

The flow control knob allows you to regulate the paint volume output, from 0ml/min to 1000ml/min, preventing overspray and paint waste.

- Rotate the flow control knob (located near the trigger) to increase or decrease the paint flow.
- Start with a lower flow setting and gradually increase it until you achieve the desired coverage and finish.

5.4. Spraying Technique

- Hold the sprayer approximately 6-12 inches from the surface, keeping it perpendicular to avoid uneven coverage.
- Move the sprayer in smooth, even strokes, overlapping each pass by about 50% to ensure uniform coverage.
- Release the trigger at the end of each pass to prevent paint buildup.

1. Easy to assemble
2. Dilute as needed and measure with a viscosity cup
3. Replace the proper nozzle
4. Switch the spray mode
5. Adjust the suction tube based on the spray angle
6. Enjoy using it

Image: A collage showing the paint sprayer being used on various surfaces including a fence, cabinet, chair, iron item, door, and wall, demonstrating its versatility.

6. Maintenance and Cleaning

Thorough cleaning after each use is essential to prolong the life of your sprayer and ensure consistent performance.

Easy to Clean

Image: The paint sprayer's container, nozzle, and other detachable parts submerged in water, illustrating the ease of cleaning.

6.1. Immediate Cleaning After Use

1. **Empty Container:** Discard any remaining paint from the container.

2. **Rinse Container:** Fill the container with appropriate cleaning solution (water for latex, mineral spirits for oil-based

paints) and spray it through the gun until clear.

3. **Disassemble:** Unplug the sprayer. Press the container release button and separate the front end from the motor housing. Disassemble the air cap, nozzle, and cap nut.

4. **Clean Components:** Use the included cleaning brush and plug needle to thoroughly clean all disassembled parts, including the container, suction pipe, nozzles, and air cap. Pay special attention to removing any hardened paint from the straws and nozzles.

5. **Use Cleaning Connector:** For internal pipe cleaning, connect the cleaning connector to a faucet and flush water through the sprayer body.

6. **Dry Parts:** Ensure all parts are completely dry before reassembling or storing.

6.2. Storage

Store the clean and dry paint sprayer in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting Guide

This section addresses common issues you might encounter during operation.

Problem	Possible Cause	Solution
No Spray or Weak Spray	Nozzle clogged, paint too thick, suction pipe blocked, air cap dirty.	Clean nozzle and air cap. Dilute paint to correct viscosity. Check and clear suction pipe.
Uneven Spray Pattern	Nozzle partially clogged, air cap dirty, incorrect spray pattern setting, inconsistent spraying distance.	Clean nozzle and air cap. Adjust air cap for desired pattern. Maintain consistent distance and speed.
Excessive Overspray	Paint too thin, flow control too high, spraying too close to surface.	Thicken paint slightly. Reduce flow control. Increase spraying distance.
Paint Leaking	Container not tightened, seals damaged, nozzle not properly seated.	Ensure container is tight. Check and replace damaged seals. Re-seat nozzle and cap nut.
Motor Not Starting	Power cord not plugged in, power outlet faulty, internal electrical issue.	Check power connection. Test outlet with another device. If issue persists, contact support.

8. Technical Specifications

Feature	Specification
Brand	SainSmart
Model Name	Paint Sprayer
Item Model Number	93-PS-A
Power Source	AC (700W)
Tank Volume	1200ml (41 Fl Oz)
Max Viscosity	120 DINS
Nozzle Sizes	1mm, 1.5mm, 2mm, 3.0mm
Spray Patterns	Horizontal, Vertical, Circular
Material	Plastic
Item Weight	1.84 Kilograms (4.05 pounds)
Product Dimensions	7.09"W x 8.07"H

Feature	Specification
UPC	816550029121

9. Warranty and Customer Support

SainSmart products are designed for quality and reliability. For specific warranty details, please refer to the documentation included with your purchase or visit the official SainSmart website.

Customer Support:

If you encounter any issues or have questions regarding your SainSmart 700W HVLP Electric Paint Sprayer Gun, please contact SainSmart customer support through their official website or the retailer where the product was purchased. Please have your model number (93-PS-A) and purchase information ready when contacting support.

You can visit the SainSmart Store for more information: SainSmart Official Store