

# Preval Spray System - Instructions for use

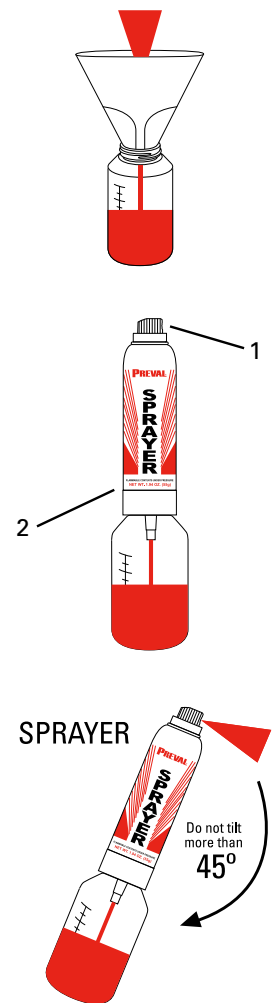


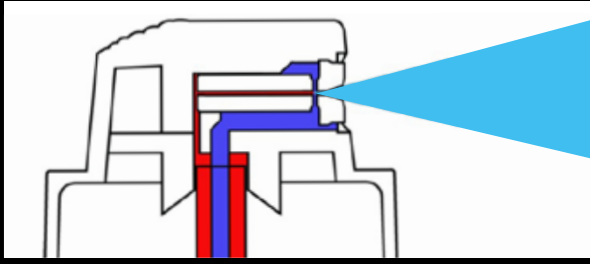
## SPRAYER DIRECTIONS

**FILL** - Strain paint using a medium mesh (225-226 micron) strainer. Thin paints and finishes using instructions supplied by the manufacturer. Pour strained paint or liquid into the product container. Fill container to desired level, do not fill the container above the line on the shoulder. Screw safety cap into place. Shake up product in product container prior to attaching to Sprayer.

**ATTACH** - Secure dip tube firmly into the bottom of the Sprayer. Remove the filter at the bottom of the dip tube for latex paints and thick paints. Attach power unit, and align red insert (1) opposite air vent (2) on coupler. Attach the product container into the coupler by turning counter-clockwise. Once product container has been attached to the power unit, **NEVER SHAKE THE SPRAYER**. Shaking the Sprayer will disrupt the spray and cause it to sputter or cease spraying. If this occurs stop and let the unit rest for 45 seconds.

**SPRAY** - Start spraying with the Sprayer in motion and release the button while the Sprayer is still moving at the end of the stroke to avoid runs. Overlap strokes, do not tip past 45° or product can leak from the vent hole located at the bottom of the power unit. The power unit is vented and, therefore, spraying between a 90° angle and 45° angle is required or the unit will not work. Hold the sprayer upright, 6" to 10" from the surface being sprayed (5" with lacquers and other quick drying finishes). If you are too close to the surface, paint will build up too quickly and will run. If you are too far away from the surface, the paint will dry before it reaches the surface and dimpling will result. Keep the Sprayer moving constantly. For best results apply 2 or more thin coats as opposed to 1 thick coat. Spray at room temperature. Begin your project by spraying off workpiece, start to move back across, release button after moving completely off workpiece, repeat process with 35%-50% overlap. Starting and finishing off workpiece will lessen chance of "hot spotting" at beginning or ending of paint stroke.





■ DISPENSED SPRAY ■ LIQUID FROM JAR ■ PROPELLANT

## HOW THE PATENTED PREVAL DESIGN WORKS

When the button is pressed, propellant and liquid are mixed and dispensed as a spray at the nozzle by action of the venturi effect. Liquid from the jar is pulled up the tube as propellant travels across the holes in the red insert (inside the button). The propellant and liquid do not mix prior to being dispensed out of the nozzle.

## TESTING THE SPRAYER

Practice spraying on a piece of cardboard or scrap metal if you have never used a Preval® Sprayer. Allow sufficient time for product to flow up the dip tube and through the nozzle. Spray for 15 seconds to prime valve with product. If after 15 seconds the Sprayer starts spraying there is no need to back flush. If Sprayer is spraying, it is primed. If clogged, see clogging in trouble shooting section below. Add additional thinner as needed. Please see Thinning Guide for our recommend usage. Remove filter from the bottom of dip tube for thicker paints. Do not shake the unit.

*NOTE: The power unit is vented. Do not tip beyond 45° or liquid will run out the air vent preventing efficient performance. The actuator orifice is .032 inches.*

## TROUBLE SHOOTING

**CLOGGING** - Remove power unit from container and remove strainer from dip tube. Install power unit on container. Hold a rag over the red insert in the button and push the button down for three seconds. You will see bubbles in the liquid as the clog is pushed out of the unit. Spray water or solvents through the sprayer to clean the unit. If the power unit gets cold, wrap it with a warm towel to bring it to room temperature or the pressure will get too low. If this does not clear the clog, replace the button as product may have dried in the button. The sprayer may not work if shaken, let the unit sit for 15 seconds before trying to spray again. Install strainer on dip tube.



If spraying thicker latex paint, hold a rag over the red insert in the button and push the button down for three seconds. You will see bubbles in the liquid as the paint is returned to the container. This will lubricate the passages in the power unit and allow smooth paint flow through the nozzle.

**FREEZING** - If the Preval power unit becomes too cold from continuous spraying, you may see sputtering or a decrease in power. Spray at room temperature for best results. Let the unit rest until it reaches room temperature before trying to spray again. If this does not work, wrap the unit with a warm towel to continue spraying.

**CLEANING** - Remove the power unit from the container immediately after use. Cap and store the unused liquid. Clean the power unit by placing the dip tube in the appropriate solvent and spraying until clean. If you are reusing the product container, clean with the same thinner used to clean the valve.

**HANDLING** - The Sprayer is classified as Limited Quantity or Consumer Commodity which means a material that is packaged and distributed in a form intended or suitable for sale through retail sales agencies and is a hazardous material which is packaged as authorized within the Limited Quantity provisions and is intended or suitable for sale at retail agencies.

**RUNS** - The Sprayer is to close to the surface or you are spraying to slowly across the surface. Spray 8" - 10" away.

**ROUGH, PEBBLY SURFACE** - The Sprayer is too far from the surface or your spraying to fast across the surface. Spray 8" - 10" away.

## WARNINGS



Flammable. Contents under pressure. Deliberate or intentional misuse by inhaling vapors may be harmful or fatal. Do not puncture or incinerate container. Do not expose to heat, sparks, open flame or store at temperatures in excess of 120° F (49° C). This is not a toy. Keep out of reach of children. Do not use with foods or pharmaceuticals.

Work in a well ventilated area when mixing or spraying paint and other volatile liquids. Keep away from open flame. Avoid breathing fumes. Please wear protective gloves, appropriate safety glasses and a respiratory apparatus while spraying toxic products.

## TYPES OF COATINGS

2k Clear-Coat	Dye	Industrial Coating	Primer
2k Paint & Primer	Emulsion	Lacquer	Sealants
Acetone	Enamel	Latex Paint	Shellac
Acrylic Paint	Epoxy	Leather Dye	Solvent-Based Paint
Alkyd Paint	Fabric Dye	Marine Paint	Stain
Art, Craft and Hobby Paint	Fixative	Oil-Based Paint	Toner
Automotive Paint	Gelcoat	Paint Additives	Varnish
Base Coat	Glaze	Polyurethane	Water Based Coatings

## THINNING GUIDE

Thinning Guide represents specific instructions for paints and thicker materials. The Preval Sprayer is not limited to only spraying these products. Visit [www.preval.com](http://www.preval.com) for more information on the many different uses of your Sprayer.

PRODUCT	PRODUCT	THINNER
Varnish	4 fl oz (118 mL)	0.5 fl oz (15 mL)
Enamel	4 fl oz (118 mL)	1 fl oz (30 mL)
Lacquer	4 fl oz (118 mL)	1 fl oz (30 mL)
Latex Paint	3 fl oz (89 mL)	2 fl oz (59 mL)
Oil & Alkyd Base Paints	4 fl oz (118 mL)	1 fl oz (30 mL)

*NOTE: For water-based paints and acrylics — thin at a 3:2 ratio. Remove container from power unit, add conditioner and shake before re-attaching to power unit. See manufacturer's instructions for automotive paint. Stains, shellac or other water-thin products generally do not require any thinning. Use the thinner recommended by the manufacturer whenever thinning.*

## PREVAL ESTIMATED PAINT COVERAGE

Table is for reference only as results will vary. Follow instructions and estimated coverage on the manufacturer's label.

TYPE OF PAINT	DILUTION	THINNER USED	COVERAGE	VOLUME USED
Red Lacquer (Oil Based)	4 to 1	Lacquer Thinner	85.5* Sq. Ft.	440 mL
White Latex (Water Based)	3 to 2	Latex X-Tender®	60.0* Sq. Ft.	125 mL
Clear Varnish (Oil Based)	4 to 1	Paint Thinner	153.9* Sq. Ft.	340 mL
White Alkyd (Oil Based)	4 to 1	Mineral Spirits	102.6* Sq. Ft.	160 mL
Brown Protective Enamel (Oil Based)	4 to 1	Mineral Spirits	102.6* Sq. Ft.	230 mL
White Semi Gloss Medium Base Latex (Water Based)	3 to 2	Latex X-Tender®	85.5* Sq. Ft.	185 mL

\* Estimated values from evacuation testing of one Preval power unit per type of paint