



21495 147th Avenue North
Rogers, Minnesota 55374
(763) 428-2168

Information Brochure

Adhesive Spray Applicator (PS-14)

Health and Safety Information

3M™ Surface Preparation Adhesive P-50 is used with the Adhesive Spray Applicator PS-14.

Precautions:

Keep product and its vapors away from heat, sparks, and open flames. Use only in areas adequately ventilated with enough air movement to remove vapors and prevent vapor buildup. Avoid prolonged breathing of vapor or overspray (airborne adhesive particles) from spray applications. Avoid eye contact. Avoid prolonged or repeated contact with skin.

Keep container closed when not in use. Keep out of reach of children.

Read all health hazard, precautionary, and first aid statements found in the Material Safety Data Sheet, and/or product label of chemicals prior to handling or use. Also refer to the MSDS for information about the volatile organic compound (VOC) content of chemical products. Consult local regulations and authorities for possible restrictions on product VOC content and/or VOC emissions.

Description

The Adhesive Spray Applicator PS-14 (Figure 1) applies an even coat of 3M™ Surface Preparation Adhesive P-50 to the pavement to prepare it for preformed markings coated with pressure sensitive adhesive. The automatic features reduce primer waste and provide easy clean-up.

Two rear wheels and one front wheel support the applicator's steel frame on the pavement. The front wheel drives a gear pump that draws prime from the can through a siphon tube and pumps it out the spray nozzle. A flexible rubber shield protects the drive wheel and pump from overspray.

Length: 41.0 in. (104.1 cm)
Width: 27.0 in. (68.6 cm)
Height: 35.5 in. (90.2 cm)
Weight: 43.0 lbs. (19.5 kg)
Capacity: One 5 gal. (18.9 liters) can
(Two 1 gal. (3.8 liters) cans)



Figure 1

Assembly Instructions

- Remove interior packaging and tape from all component parts.
- Screw the spray nozzle pipe into the elbow on the pump.
- Lay the aluminum can support plate in the main frame (Figure 1).

Note: All PS-14 Spray Applicators manufactured prior to 1994 should be retrofitted with the following update kits:

Code	Description
PSP-7	Nozzle/Spray Tip Assembly
PSP-8	Suction Tube/Piping Assembly

Operation

- A. Open the pour spout on top of the can. Push the siphon tube all the way into the can. If equipped turn the ball valve handle to the vertical open position. (Figure 2)

Warning: Do not operate applicator with adhesive near open flames, sparks, cigarettes, etc.

- B. With the pump drive wheel on the pavement, push the applicator forward to spray. Do not pull back. Pulling back on the applicator reverses the pump and forces the adhesive back into the can.

Note: To move the applicator without driving the pump, tip the applicator back on the rear wheels. Doing so raises the pump drive wheel off the pavement and stops the pump.



Figure 2

- C. Change the spray nozzle height to adjust the width of the spray. The recommended spray pattern width is 6 inch spray for 4 inch tape. This spray pattern provides

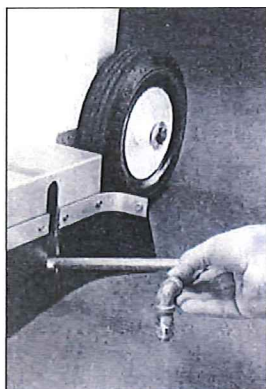


Figure 3

a coverage of 450 lineal feet per gallon of P-50 adhesive. If tape wider than 4 inches is to be applied, make multiple passes with the Adhesive Spray Applicator PS-14. Do not adjust the single pass spray wider than 6 inches as this will not provide adequate coverage. Note: when making multiple passes with the PS-14 applicator be sure to overlap the spray pattern and allow additional drying time for the overlap area. Raise the nozzle to widen and

lower the nozzle to narrow the spray pattern. Keep the nozzle perpendicular to the pavement when changing the height (Figure 3).

- D. For additional adjustment, loosen the threaded ring holding the fluid tip and turn the tip so that the slotted opening is a 90° angle with the direction of travel. Retighten the threaded ring while holding the tip at the desired angle. For normal use, keep the opening at 90° angle to the direction of travel.

Note: the pump delivers a uniform spray at normal walking speeds. A fast walking speed will provide a better spray pattern from the pump. A slow walking speed will not provide an adequate spray pattern or coverage and may cause the primer to drizzle from the spray applicator. Keep a firm downward pressure on the front wheel of the Adhesive Spray Applicator Cart while spraying to avoid wheel bounce on the rough surfaces which may result in areas with no primer. The gear pump and spray nozzle assembly are in balance to properly meter the primer. Obtain replacement parts through your Century Tool representative to maintain this balance.

- E. If the spray nozzle assembly becomes clogged, remove it and clean with solvent (Acetone or Methyl Ethyl Ketone). The assembly contains 3 parts (Figure 4). The fluid tip (left) determines the type of pattern. The threaded ring (center) holds the tip and the adapter (right) to receive the threaded ring.



Figure 4

Note: The PS-14 Adhesive Spray Applicator no longer has a strainer filter. When ordering update kit PSP-7, do not reinstall the old strainer.

Operation

- When finished priming, pull the PS-14 backwards 8-10 feet to draw the adhesive back into the can and remove the siphon tube from the adhesive.
- Insert the siphon tube into a can of Acetone or Methyl Ethyl Ketone (Figure 5), place a catch pan under the spray nozzle, and rotate the front wheel until the solvent from the spray nozzle appears clear.
- Rotate the pump backwards, to draw the solvent back into the can.
- If equipped, turn the pump valve to the horizontal closed position.

- Dispose of the cleaning solvent according to local regulations and guidelines.

Additional Replacement Parts

- | | |
|-------|-----------------------|
| PSP-1 | Drive Wheel |
| PSP-2 | Gear Pump |
| PSP-3 | Spray Tip Assembly |
| PSP-4 | Spray Shield Assembly |

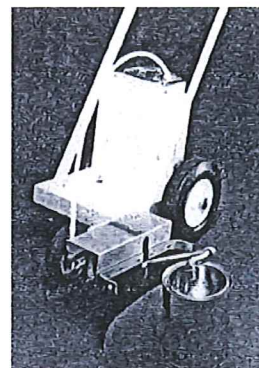


Figure 5