

Transportation Safety Division

Adhesive Spray Applicator PS-98

3M™ Stamark™ Pavement Marking Primer

Information Folder PS98 Adhesive Spray Applicator

September 2021

1 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: wear appropriate eye and skin protection! Keep container closed when not in use. Keep out of use 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.

2 General Explanation

The 3M™ Adhesive Spray Applicator PS-98 (Figure 1) applies an even coat of 3M™ Stamark™ Pavement Preparation Adhesive P50 to the pavement to prepare it for preformed markings coated with pressure sensitive adhesive. The three-wheeled steel-chassis carries a gear-pump driven by the rear-axis, steel tubes, flex-tubes and a spray-arm with a double-nozzle spray head for spray-widths up to 19cm. The spray-arm can be installed pointing to the left or the right side of the applicator. The vertical position of the spray-head is not adjustable.



3 Operation

Assemble spray cart like shown in Figures 2-5. Remove the cover and inside seal from the adhesive can. Stir thoroughly. Replace the cover and open the pour spout on top of the can. Push the siphon tube of the PS98 all the way into the can. **Warning:** Do not operate the applicator near open flames, sparks, cigarettes, etc. Push the applicator forward with fast walking speed. Pull the handle grip(*) to start the pump and spray. For the first spray action pull handle grip earlier to fill all the tubes with primer. Release the grip to stop the pump. (*) New PS-98 spray carts do not have a handle; for spraying the front wheel has to touch the surface.

The estimated usage stays typically in the range of 0,2-0,35L/m² (meaning with the primer width of 19cm, suitable for a 15cm wide tape, around 350 running meters may be applied with a single 20L can of primer), however the real usage will strongly depend on the weather conditions like temperature, application speed and viscosity of the primer. If tape wider than 15cm is to be applied, multiple passes with the PS-98 applicator are required. Remember that the spray-arm is not adjustable in vertical position! **Note:** When making multiple passes with the PS-98 applicator be sure to overlap the spray pattern and allow additional drying time for the overlap area.

For additional adjustment, loosen the threaded ring holding the spray tip and turn the tip so that the slotted opening is at 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 a 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. A slow walking speed will not provide a adequate spray pattern or coverage and may cause the primer to dribble from the spray applicator.

When you interrupt the Application with the PS-98 applicator during the application pull the PS-98 applicator backwards 3-5 m with pulled handle grip, to draw the primer back into the can, and remove the siphon tube from the primer. In this way droplets of primer on the surface will be avoided.

4 Assembly Instructions

Please assemble Spray cart as displayed in Figure.

Fixing Spray (possible to the right and left side)



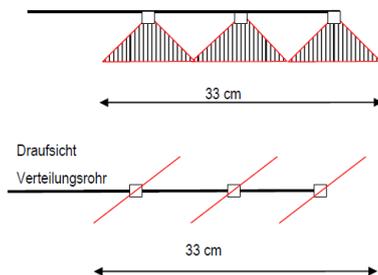
example 2-fold spraying



5 Operation and Maintenance

To spray pull handle grip, releasing stops the pump [New Equipment: The pump is driven by the front wheel. Let front wheel touch the ground for spraying, while pushing spray cart]

example 3-fold spraying



6 Clean Up

When finished priming, pull the PS-98 backwards 3-5 m with pulled handle grip(*), to draw the primer back into the can, and remove the siphon tube from the primer. (*) For New Equipment: have all wheels touching the ground while pulling the Applicator backwards.

Insert the siphon tube into a can of regular gasoline or Methyl Ethyl Ketone, place a catch pan under the spray nozzles and rotate the rear wheels(*) until the solvent from the spray nozzles appears clear.

(*) For New Equipment the front wheel.

Remove the siphon tube and spray the rest of the liquid into the patch-can until all tubes and gear pump is empty. Never leave primer in the pump and tube system overnight! Dispose the cleaning solvent according to local regulations and guidelines.

7 Trouble shooting

If you experience a non-uniform spray-pattern try to accelerate your walking speed. If problem still occurs check spray-nozzles if they are 100% open. If not, disassemble spray-heads and clean spray tips properly. Make sure you clean spray system carefully after every use.

8 PS-98 Spare Parts

Spare parts can be ordered directly at the machine manufacturer. Please contact your 3M representative for further information.

9.1 Health and Safety Information

The 3M™ Adhesive Spray Applicator PS-98 is intended to be used to apply 3M™ Stamark™ Surface Preparation Adhesive P50 to the road surface.

Read all health hazard, precautionary and first aid statements found in the Material Safety Data Sheet (MSDS), and/or product label of chemicals prior to handling or use.

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12 Literature References

For additional information on 3M™ Stamark™ P50 primer, refer to the following publications:

IF P50 Information Folder Surface Preparation Adhesive 3M™ Stamark™ P50

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Subject to modifications
Product Bulletin IF PS98 09.2021

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