

AIRLESS PAINT SPRAY GUN

SAFETY/RISK/HAZARD ASSESSMENT

PLANT INFORMATION

NHG Ref/Part No.

Plant ID: AIRSPRAY

Plant Name: Airless Paint Spray Gun

Operator Competency: Plant Licence Not Required
It is the hirer's responsibility to ensure that all operators are competent.

Please refer to the User Guide and Operators Manual for detailed Operating Instructions



RISK ASSESSMENT INFORMATION

Potential Hazard(s)

Serious injury due to skin injection and/or contact

Risk Level

High

Spray from the gun, hose leaks, or ruptured components can inject fluid into your body and although the injury may appear like a cut, it is an extremely serious injury, which can/may lead to the need for amputation. Splashing fluid in the eyes or on the skin can also cause serious injury. Seek immediate medical attention.

Control Measures

Wear appropriate safety clothing & equipment.

Use in a spray booth where available.

Keep all non-essential persons clear of the spray area. The exclusion zone should be marked by clearly defined barriers, and consist of an area large enough for the particles, fumes, etc., to disperse before reaching the barrier.

Do not point the dispensing valve at anyone or any part of the body.

Do not put hand or fingers over the spray tip.

Do not stop or deflect fluid leaks with your hand, body, glove or rag.

Do not 'blow back' fluid. This is NOT an air spray system.

Always have the tip guard and the trigger guard in place when spraying.

Ensure the gun trigger safety operates before spraying.

Lock the gun/valve trigger safety whenever you stop spraying.

Follow the PRESSURE RELIEF PROCEDURE whenever you:

- a) Are instructed to relieve pressure
- b) Stop spraying
- c) Clean, check or service the equipment
- d) Install or clean the spray tip

Tighten all fluid connections before operating the equipment.

Check the hoses, tubes and couplings daily. Replace worn, damaged, or loose parts immediately. Permanent coupled hoses cannot be repaired; replace the entire hose.

Have emergency spill equipment and procedures in place.

Always clean according to the manufacturer's instructions.

Ill health due to exposure to toxic fluid/fumes

Risk Level	High
Control Measures	<p>Know the specific hazards of the fluid you are using. Read the manufacturers warnings.</p> <p>Permanent ventilation to the outside atmosphere must be provided at all times.</p> <p>Store hazardous fluid in an approved container. Dispose of hazardous fluids according to all local, state and national guidelines.</p> <p>Wear appropriate safety clothing & equipment. Eye protection is essential to ensure you do not get overspray in your eyes.</p>

Fire and explosion hazard

Risk Level	Medium/High
Control Measures	<p>Ground the equipment and the object being sprayed.</p> <p>Provide adequate ventilation to avoid build-up of flammable fumes.</p> <p>Extinguish all open flames and pilot lights in, and in the immediate area surrounding the spray area.</p> <p>Disconnect all unnecessary electrical equipment in the spray area.</p> <p>Keep the work area free of debris, including solvent, rags and fuels.</p> <p>Do not switch on any light switch in the spray area while operating or if there are fumes present.</p> <p>Do not smoke or ignite any other flammable materials in the spray area.</p> <p>Do not operate any fuel based engines in the spray area.</p> <p>If there is any static sparking during operation, cease spraying immediately and identify and correct the problem.</p>

KEY OPERATING INSTRUCTIONS

Before setting up the airless sprayer for painting verify that everything is in good working order. Look over the equipment for any potential safety concerns.

Inspect:

1. The airless hose for any bulges or breaks in the line.
2. Your respirator is suitably rated for your selected material.
3. All hose connections to make sure they are not damaged and are securely connected to the airless sprayer.

Setting up the Airless Sprayer to Paint

After inspection, prime the fluid section of the sprayer. Airless sprayers will have a prime and spray setting or a valve that can be opened to initiate prime and closed to initiate spraying.

To prepare the airless sprayer ready for painting, to place the pickup tube in the material to be sprayed and the dump tube in an empty bucket or container. The dump tube should be in a separate container because any material that was in the pump from a previous job will be expelled when priming the pump.

Make sure the sprayer is set to prime or the valve is opened to allow material to circulate through the fluid section. Let the pump run until the new material can be seen coming from the dump tube.

After material can be seen coming from the dump tube, set the sprayer to spray. This will begin building pressure out to your airless spray gun. Once the sprayer has stopped building pressure, begin to spray until the new material is coming out of your airless spray gun.

Once the material is primed through the fluid section and to the spray gun, spray a test pass. The best option is to start with the pressure low and gradually increase the pressure until the break up of paint is sufficient.

The pressure is high enough when there are no lines at the edge of the pattern and the material is finely broken up. If the material will not break up with the tip, either continue to increase pressure or try a smaller tip by selecting a tip with a smaller first and/or second number.

Using an Airless Spray Gun

When airless spraying, hold the spray gun about 8 – 12 inches from the target and keep the airless spray gun facing perpendicular to the surface without arching. Each pass should overlap about 25 – 50% so that there is no gap between each pass. Continue doing this until the product is covered. If you notice runs in your paint you either need to move faster or select a smaller tip opening to prevent excessive paint being sprayed.

AIRSPRAY

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Proper Airless Clean Up

Proper cleaning of the airless paint sprayer will depend on whether oil or water based materials were used.

If oil based, flush with the proper solvent based on the paint sprayed

If water based, just use water.

Place the pick up tube in the proper cleaner and the dump tube to be placed in a separate bucket.

Switch the pump to prime or open the valve until clear cleaner is flowing through the pump.

Once the pump fluid section has been cleaned, switch the pump to spray.

Ideally, remove the airless tip and guard with the pump off prior to beginning the clean out of the sprayer.

The tip and guard should be placed in cleaner. By leaving the tip and guard off, there will be less pressure when spraying preventing any bounce back. Spray material through the airless hose until clean material is flowing from the airless spray gun.

Please refer to the User Guide and Operators Manual for detailed Operating Instructions

The safety information contained in this assessment is general information only and should not be relied upon as a substitute for professional advice or tuition, which the hirer should seek before operating.