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0913 Safety Guidance
v:032017

# Airless Spray

**The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.**

## It is important to read all of this leaflet BEFORE using the Airless Spray

1. Electricity can be hazardous and must always be used with great care.
2. Paint is ejected from the nozzle of this equipment at high pressure. Care must be taken not to cause injury by spraying over anyone.
3. Paints and solvents used with this equipment may be highly flammable and toxic. Appropriate precautions must be taken.
4. This airless spray is designed for high pressure spraying of paints and emulsions, such as resin-based paints, and intumescent finishes for fireproofing.
5. Spraying paints and chemicals at high pressure can cause injury or damage if the equipment is not used in a careful and controlled way.
6. If the operator has not used the equipment before, they should take time to familiarise themselves with the equipment before starting work.
7. The job should be planned in order to foresee any problems that may occur so that they can be safely dealt with.
8. The following items of personal protective equipment must be worn as a minimum: Impact resistant goggles: EN166 – B or BS2092 grade 1; Facemask 0 a minimum of EN149 FFP3(sl) protection or, preferably a respirator; Overalls; Gloves; RCD if using a 230volt mains supply.
9. This equipment must not be used by minors, or by anyone under the influence of drugs or alcohol.
10. This airless spray is designed for use by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.

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# Using the Airless Spray

1. Protective equipment including non-slip goggles, facemask, and ear defenders must be worn.
2. Do not smoke or use naked flames while handling paints or chemicals.
3. Follow the instructions provided with the paint, or other liquid that is planned to be used.
4. Wash drips of paint or chemical off the skin immediately. Do not allow to dry, do not just brush off.
5. The spray gun should be held firmly when squeezing the trigger because the pressure can make it kick back.
6. Do not spray over electrical equipment. This could cause a short circuit and fire. It could also deliver a fatal shock.
7. The spray should not be aimed at people or animals.
8. When the spray equipment is not in use, it should be switched off, the trigger should be depressed to release any pressure and make safe.
9. If someone approaches the spray must be stopped.
10. Care must be taken not to accidently pull the plug from the socket.
11. If it suspected that the cable may be cut or damaged in any way, switch off and unplug at the mains before the equipment is inspected.
12. Switch off and remove the plug from the socket before the machine is left unattended.
13. When the work is finished the equipment must be thoroughly cleaned before the contents harden or set.
14. Facemask and gloves must be worn when cleaning the equipment especially if using solvents.
15. Paints or toxic liquids must not be poured into drains; follow the manufacturer's instructions regarding cleaning and disposal – or contact the hire company.
16. The equipment must be returned to the hire shop in a clean condition.
17. If the equipment does not work properly do not attempt to repair it. Contact the hire company.

***Please store this leaflet safely. It may be required for further information***

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## Before Starting Work...

### PAINTS AND CHEMICALS

1. Care must be taken; the paints and chemicals used in spraying can be toxic, flammable or both.
2. Goggles, facemask and other safety equipment must always be worn for the operators protection.
3. Smoking and naked flames are not permitted while handling paints or chemicals.
4. Always follow the manufacturer' instructions written on the labels or on the containers.
5. Wash drips or splashes of skin immediately. If any type of chemical comes into contact with the eyes, they should be rinsed thoroughly and medical advice sought.
6. Always put the caps on containers to prevent accidental spillage and put the containers safely and securely away to prevent unauthorized use.

### WORK AREA

1. Do not use this airless spray where there is a danger of explosion. It will ignite fumes from petrol, or gas cylinders.
2. Make sure that the work area is clean and safe and that no-one is nearby who could cause a distraction.
3. The atomized spray from the nozzle may be toxic or flammable. Make sure that the work area has good ventilation and any source of ignition has been removed.
4. Protect other people from any noise and spray. Barriers should be put up with warning signs.
5. The airless spray equipment should not be left in the rain or where the electrical parts might get wet.

### OPERATORS

1. The following items of personal protective equipment (ppe) are the minimum that should be worn whenever this spray is used. Particular jobs or environments may require a higher level of protection.
2. An appropriate facemask (with a minimum of EN149 FFP3(sl) must be worn, or a respirator when using this equipment.
3. Impact resistant goggles must be worn (EN166 – B or BS2092 grade 1) when working with this spray equipment.
4. This equipment is likely to cause noise levels up to 95dB(A) – Appropriate ear mufts or plugs must be worn, giving protection up to this level as a minimum.
5. Strong gloves must be worn to protect hands and overalls to keep spray away from clothes.
6. Anyone working nearby will also need to wear appropriate personal protective equipment.
7. All of the controls should be understood.

### AIRLESS SPRAY

1. Check the spray equipment, cable, plug, high pressure hoses and spray gun. If anything is found damaged, the airless spray should not be used – contact the hire company.
2. Check the plug on the equipment matches the power supply. Connections should not be forced or improvised.
3. Equipment with a cylindrical yellow industrial plug fitted is designed to run off a special 110v supply. The hire company will have provided a portable transformer if the equipment is to be powered from a 230v mains supply. If a portable transformer has been supplied, care must be taken to avoid injury when moving it about – it may be heavier than it appears.
4. Before switching the airless spray on, it must be known how to stop it.

### NOZZLES

1. Some spray guns have a nozzle tip, which is reversible simply by rotating a control lever on the side of the nozzle. This enables to operator to clean out blockages by spraying through the nozzle backwards; the tip is then reversed again to continue spraying.
2. Do not attempt to continue spraying with the nozzle still reversed. Arrows on the control lever clearly show which way the nozzle should be for spraying.
3. Different size spray nozzles are available for different consistencies of paint; check with the hire company.

### ELECTRICAL SUPPLY

The equipment will only operate on one voltage: it will be 110v or 230v. 110v equipment will have a yellow industrial plug fitted. 230v equipment will have either a normal square pin plug, or a blue industrial plug. Read the instructions below for the equipment being used.

### 110 VOLT MACHINES (YELLOW PLUG)

1. If a portable transformer is being used, the transformer should be plugged directly into the 230v socket. Do not use 230v extension cables.
2. If an extension cable is needed, follow any special instructions given by the hire company. If the hire company has not given any special instruction, only a suitably rated heavy duty 110v extension cable should be used. No longer than 50 metres (160 feet). The extension cable should be plugged directly into the rcd.
3. The cable must be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.
4. Extension cable connections must be dry and safe.

### 230 VOLT MACHINES (SQUARE PIN OR BLUE PLUG)

1. Use a residual current device (rcd) plugged directly into the 230v socket. The equipment should be plugged into the rcd. This will help to protect against electric shock if the cable or equipment get damaged.
2. Use the TEST button to check that the rcd is working each time it is used. Reset the rcd according to the instructions supplied with it.
3. If an extension cable is needed, follow any special instructions given by the hire company. If the hire company has not given any special instruction, only a suitably rated heavy duty 110v extension cable should be used. No longer than 50 metres (160 feet). The extension cable should be plugged directly into the rcd.
4. The cable must be laid out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles might run over it. It should be fully unrolled or it will overheat and could catch fire.
5. Extension cable connections must be dry and safe

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