

## SAFE WORK PROCEDURES SPRAY PAINTING



### SPECIAL INSTRUCTIONS:

1. Spray painting should only be carried out by persons who are trained in the task and who have been instructed in the hazards and risk control measures for the substance/s that they will be exposed to during the spray painting process.
2. A Safety Data Sheet **must** be obtained for **all** substances used in spray painting, and kept in a register adjacent to the area where the substance is used.
3. Suitable personal protective equipment must be provided for each person who will be exposed to a hazardous substance, and instruction provided on the correct selection, use and maintenance of the equipment.
4. All spray painting should only be done in a properly constructed spray booth unless it is impractical to do so due to the nature of the task, or it is “minor work”.

Sequence	Identified hazards	Key processes to be followed	Precautions / PPE required
1. General precautions	<p>Hazardous exposure</p> <p>Compliance of spray booths</p> <p>Health monitoring of workers</p>	<p>All spray painting operations should be carried out in accordance with work, health and safety precautions specified in Regulations and Codes of Practice <i>Managing risks of hazardous chemicals in the workplace</i> and <i>Spray painting and powder coating</i>.</p> <p>Spray painting booths should be designed, constructed and installed to comply with AS/NZS 4114.1: <i>Spray painting booths, designated spray painting areas and paint mixing rooms – Design, construction and testing</i> and AS/NZS 4114.2: <i>Spray painting booths, designated spray painting areas and paint mixing rooms – Installation and maintenance</i>; be fitted with an exhaust capture system and a ventilation system that includes a filter for removing airborne contaminants and provides adequate air movement, and must be inspected and maintained by a competent person in accordance with the manufacturer’s specifications.</p> <p>Health monitoring of workers exposed to hazardous chemicals listed in Schedule 11 of the <i>Work Health and Safety Regulations</i> while carrying out spray painting work must be carried out in accordance with the procedures specified in the Regulations.</p>	<p>Spray painting should only be carried out by persons who have been trained in the correct use of spray painting equipment and the safety precautions to be used.</p> <p>All maintenance, cleaning, repairs and replacement of filters, etc., must be carried out by competent persons at specified intervals or when required due to faults or damage to booths or accessories.</p> <p>Records must be kept of all testing, maintenance and repairs carried out.</p> <p>Health monitoring must be carried out by a registered medical practitioner who is authorised to conduct health monitoring.</p>
2. Storage of materials	<p>Risk of fire</p> <p>Hazardous chemicals register</p>	<p>Store flammable liquids in a secure, well-ventilated bunded area away from heat, flames and hot work areas.</p> <p>Provide warning signs as required by regulations at storage areas.</p> <p>A register of all substances (including current SDS and risk assessments of all hazardous chemicals) used should be maintained in the storage area.</p>	<p><b>No smoking or open flames.</b></p> <p><b>No sparks or ignition sources.</b></p> <p>Provide SDS register in work area.</p>
3. Paint mixing	<p>Risk of fire</p> <p>Exposure to substances</p> <p>Disposal of waste</p>	<p>Control all ignition sources in paint mixing area.</p> <p>Use static control devices when decanting or pouring solvents, etc.</p> <p>Prevent contact of paint and solvents with eyes and skin.</p> <p>Wear suitable respiratory protection when cleaning spray equipment.</p> <p>All waste paint, cleaning solvents, etc., must be properly labelled and disposed of at an approved chemical disposal facility.</p>	<p><b>No smoking sparks or flames.</b></p> <p><b>Wear eye and hand protection.</b></p> <p><b>Respirator</b> must be worn.</p> <p>Provide suitable containers for the disposal of waste substances.</p>

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4. Ventilation systems for spray booths	Atmospheric contamination	Spray booth ventilation control systems should operate a pre-purge cycle to remove any residual contaminants and also operate a post-purge cycle of a minimum of 5 minutes following cessation of spray painting. A sign should be posted at each entrance into the spray booth indicating the time that persons should allow for contaminants to clear before entering the booth.	Pre and post-purge cycle times should allow all contaminants to be removed from the booth before normal entry. Actual times may vary according to the contaminants and the size of the booth.
5. Work in spray booth	Fire/explosion risk Exposure to substances	Control all ignition sources in vicinity of paint area. All personal protective equipment as specified on SDS for substances being sprayed must be worn by any person in the spray booth whilst the substances are being sprayed or until the booth is clear of contaminant. Supplied air breathing apparatus must be provided and used when using paints and coatings containing hazardous chemicals listed in Schedule 11 of the Regulations, or when recommended in the manufacturer's SDS for the substance.	<b>Remove all ignition sources from area.</b> <b>Eye, respiratory, hand and body protection</b> must be worn. Allow at least 5 minutes to clear. Ensure that air supplied is filtered to the standard specified in the Code of Practice at all times.
6. Outdoor work and work outside of spray booth	Exposure to substances Atmospheric contamination Fire/explosion risk	Same level of protection as indoor work must be worn by person spraying. Prevent entry of unprotected persons into vicinity of spray painting until contaminant in air has dispersed. Control all ignition sources in vicinity of paint area.	<b>Wear suitable PPE.</b> <b>No unauthorised entry.</b>  <b>No smoking sparks or flames.</b>
7. Care and maintenance of personal protective equipment	Inspection Cleaning Storage Issue and replacement	Inspect PPE for wear or damage before and following each use. Follow manufacturers' care instructions to clean and maintain PPE. PPE should be stored in a clean, dust-proof enclosed cabinet or storage. PPE should be issued on a personal basis unless provision is made for cleaning and sterilisation of the equipment to 'as new' condition and hygienically packaged.	Replace faulty PPE immediately. Wash and dry PPE thoroughly. Provide suitable storage for PPE. Avoid cross-contamination of PPE by users.
8. Maintenance of spray booths	Inspection Maintenance	Booths must be inspected at recommended intervals by a competent person to ascertain whether the booth is safe to use and not a risk to health. Booths must be maintained (including cleaning of filters and exhaust systems) at intervals specified by and as recommended by manufacturer.	"Competent person" is a person with training, qualification, experience, knowledge and skill to enable them to carry out the task.

### PRECAUTIONS:

The following precautions are to be observed in areas where these procedures are carried out.



