

Contents

PART 1 Company Statement

- 1.1 Application
- 1.2 Objectives of the Safety Statement
- 1.3 Safety Statement
- 1.4 Policy Statement
- 1.5 Revisions
- 1.6 Insurance requirements
- 1.7 Professional Bodies and Registration

PART 2 Duties and Responsibilities

- 2.1 Management Control System
- 2.2 Manager 2
- 2.3 Human Resources
- 2.4 Manager 1
- 2.5 Managers and Supervisors
- 2.6 All employees
- 2.7 Office based staff
- 2.8 Contractors

PART 3 Arrangements for Safe Working

- 3.1 Resources
- 3.2 Safety Induction
- 3.3 Training
- 3.4 Safety Consultation
- 3.5 Safety Representation
- 3.6 First Aid
- 3.7 Reporting of Accidents, Diseases and Dangerous Occurrences
- 3.8 Welfare Facilities
- 3.9 Personal Protective Equipment
- 3.10 Permit to Work Systems
- 3.11 Smoking Policy
- 3.12 Drugs and Alcohol Policy
- 3.13 Bullying Policy
- 3.14 Young and Inexperienced Workers Policy

PART 4 Hazard Identification and Control Measures

- 4.1 Hazard Inspections
- 4.2 Fire
- 4.3 Access and Egress

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	2

- 4.4 Housekeeping
- 4.5 Manual Handling
- 4.7 Electricity
- 4.8 Offices
- 4.9 Visual Display Units
- 4.10 Hazardous Substances
 - 4.10.1 Asbestos
- 4.11 Assembly and Technical Work
- 4.12 Abrasive Wheels
- 4.13 Loft insulation
- 4.14 External Wall Cladding
- 4.15 Insulation Foam Injection
- 4.16 Power tools
- 4.17 Scaffolding
- 4.18 Working at Height
- 4.19 Company Vehicles
- 4.20 Ladders
- 4.21 Mobile Elevated Working Platform
- 4.22 Portable Generators
- 4.23 Lifting Operations
- 4.24 Dust and mixing
- 4.25 Spray Polyurethane Foam

PART 5 Manager 2's Annual Report

PART 6 Staff Sign off

PART 7 Appendix

- Miscellaneous H&S forms
- Template method statement
- Basic MSDS for Insulating material and fungicide

PART 8 Related Policies

- Environmental Policy
- Equality Policy

Disclaimer.

This Statement has been prepared with the assistance of www.safety-statements.ie no liability may attach to www.safety-statements.ie arising out of any element of the contents of this statement. It is accepted that Manager 2 is responsible for ensuring the contents adequately reflect the activities of the business.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	3

1.1 APPLICATION

This Safety Statement has been developed to assist ABC Company comply with relevant H&S standards and to ensure that clients are fully aware of ABC Company's commitment to high standards in H&S.

In addition to the normal types of insulation such as wall cladding and beads, we also apply Spray Polyurethane for lining of pools or other approved applications.

In Part 4 of this Safety Statement "Hazard Identification" we have set out the hazards and controls we expect to come across on our day-to-day activities. In addition to this we will draw up a Method Statement that takes account of local hazards as well as the hazards in Part 4 on a contract by contract basis.

1.2 OBJECTIVES OF THE SAFETY STATEMENT

To provide a reference for the policies and procedures used in house and at any Client sites. It is also used to assess and audit the levels of health and safety being achieved.

To provide evidence that the policies and procedures to ensure health and safety objectives are met and have been thought out and documented in order to help those who must execute them.

To provide a control document to record the pertinent changes to the Company Safety Statement, which become necessary due to the changing business environment.

To help identify training requirements that needs to be fulfilled in order to generate suitably qualified personnel to carry out the policies and procedures contained within the document.

To provide assurance that compliance with legal requirements for health and safety are being met or exceeded.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	4

1.3 COMPANY SAFETY STATEMENT

The general Statement on this page sets out the Safety Policy of ABC Company.

It is this Company's intention that its work will be carried out in accordance with the relevant statutory provisions of the Safety, Health & Welfare at Work Act 2005, the Safety, Health & Welfare at Work (General Application) Regulations, the Construction Regulations, the Working at Height Regulations and any other applicable regulations from those implemented in 2007. All reasonable practicable measures will be taken to minimise risk to employees or others who may be affected by company activities.

ABC Company have appointed Manager 1 as having responsibility for managing Health, Safety & Welfare. Reference should be made to the Manager 1, in the event of any difficulty arising in the implementation of this policy. Manager 2 will have ultimate responsibility for ensuring that the provisions of this Safety Statement are implemented.

The Success of the policy will depend on the co-operation of all employees. It is therefore important that you acquaint yourself with all areas of the Safety Statement. You should ensure that you understand your role and the overall arrangements for Health & Safety within the Company and within your individual area. You should also be aware that you have an obligation to take care of your own safety and that of others that might be affected by your actions.

Signed: _____
Manager 2

Date: _____

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	5

2.2 MANAGER 2

- ❑ Manager 2 will be responsible for implementation of the procedures within the Safety Statement.
- ❑ Manager 2 bears the ultimate responsibility for ensuring that staff are given correct information and training for them to do their job effectively.
- ❑ Responsible for ensuring that staff are supported in enabling them to reach the correct decisions in respect of health and safety matters.
- ❑ Supervise the Company Health and Safety programme.
- ❑ Review all safety rules bi-annually and, when necessary, recommend suitable changes.
- ❑ Investigate all major accidents and damage to Company property and recommend action.
- ❑ Ensure that accident records are maintained.
- ❑ Ensure that records of hazards/near miss reports are maintained.
- ❑ Ensure that the systems for ensuring that fire precautions are adequate.
- ❑ The Health, Safety, and Welfare of all employees are not compromised when all other performance standards are set.
- ❑ That adequate funding is reserved to meet regulatory needs of safety and health.
- ❑ That management will lead by example in adhering to stated policies to achieve the Company's aim to reduce accidents and health exposures.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	14

2.3 HUMAN RESOURCES (this function is shared by Manager 1 and Manager 2 until such time as the staff numbers warrant a specialist employee)

- ❑ Supervise the Company Health and Safety programme.
- ❑ Identify training needs and develop a training plan for all staff as necessary.
- ❑ Advise the Manager 2 on all aspects of training in relation to safety.

2.4 Manager 1

- ❑ Regularly inspect the workplace to ensure that the programme is being complied with and make recommendations directly to all employees in matters concerning Health and Safety.
- ❑ Ensure the review of Health and safety on a monthly basis.
- ❑ Review the Staff suggestion and query forms weekly.
- ❑ Control Sub-contractor work on the premises.
- ❑ Supervise the Company Health and Safety programme.
- ❑ Get the assistance of all management in monitoring the effectiveness of the Company Safety Statement.
- ❑ Review all safety rules on a regular basis and, where necessary, recommend suitable changes.
- ❑ Assist in the induction and safety training of new employees.
- ❑ Inspect and maintain records of hazards/near miss reports.
- ❑ Monitor the systems for ensuring that fire precautions are adequate.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 1	15

2.8 CONTRACTORS (Generally used when ABC Company engage sub-contractors on their behalf).

The following responsibilities are allocated to contractors to whom ABC Company assigns work on their behalf:

- All contractors must submit their Safety Policies and Insurances to ABC Company for approval prior to being awarded any works.
- All Contractors will be expected to prepare a Method Statement appropriate to the works they will be engaged in.
- Where Appropriate no contractor may be allowed to commence work on a client site prior to being issued a Permit to Work by the Client.
- All contractors will be expected to comply with the ABC Company Policy for Health, Safety and Welfare and must ensure that their own Company's policy is made available to the ABC Company and the Client whilst work is being carried out.
- All work must be carried out in accordance with relevant statutory provisions, the Company's Contractor's Rules and taking into account the safety of others on the Client site.
- All staff sent to work at a Client site by a contractor must have received appropriate health and safety training from their employer. They must also have access to relevant Risk Assessments and method statements as necessary.
- Scaffolding and other access equipment used by contractors' employees must be erected and maintained in accordance with Regulations and Codes of Practice.
- All plant and equipment brought onto site by contractors must be safe and in good working order, fitted with any necessary guards and safety devices and with any necessary certificates available for checking.
- No power tools or electrical equipment of greater voltage than 110 volts should be brought onto site. All transformers, generators, extension leads, plugs, and sockets must be suitable for industrial use and in good condition. If it is necessary to use equipment operating from a 240-volt supply, a residual current device with a rated tripping current of 30 mA and operating 30-m secs must be used.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	21

3.6 FIRST AID

CONTROL MEASURES

The first aid box should be suitably marked and easily accessible. When on client sites we will agree to use the services of the onsite first aider with the client as we would rarely have more than two employees on a job.

The exact location of the First Aid box must be known by all employees and a specific notice, identifying its whereabouts, must be posted to include names of qualified First Aiders.

It is the company's policy that First Aiders shall be appointed who have certificates of qualifications in Occupational First Aid to ensure adequate cover for all activities.

The first aid boxes are suitably marked and easily accessible. The location is follows;

- ❑ **General office**
 - ❑ **Vans**
- ❑ The First Aid Boxes is inspected on a weekly basis by drivers who have them in vans. The office first aid kit is checked by Manager 1. This check and replenishment is recorded and kept on file.
- ❑ It is the company's policy that First Aiders shall be appointed who have certificates of qualifications in Occupational First Aid to ensure adequate cover for all activities. This policy shall not be activated until there is a suitable number of employees at a fixed location.
- ❑ When employees are carrying out an installation at a Client premises, they shall seek the advice and assistance of the Client First Aider if necessary.
- ❑ It should be noted that First Aiders are not empowered to dispense analgesics, pills, or medications. Supplies of such items will not be in first aid boxes. Individual employees who believe they might have a need of these items must be responsible for their own supplies.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	29

3.12 DRUGS AND ALCOHOL POLICY STATEMENT

ABC Company recognises that alcohol, drugs, or other substance abuse by individuals can have an adverse effect on their ability to perform work and consequently put themselves, the Company and others at significant risk.

All Employees, Contractors, Sub - Contractors and Visitors must be able to perform their duties whilst on company business, or when they are in Company premises/ work areas in such a manner that will not affect their safety or the safety of others by acts or omissions.

If the Company has reasonable grounds to suspect that an Employee or Contractor or Sub Contractor is under the influence of alcohol or drugs (illegal or misused legal substances), disciplinary action will be taken which may lead to dismissal of the individual concerned.

The possession, distribution or sale of drugs or any associated materials whilst you are on company property, company owned vehicles or other off site locations, will lead to disciplinary action being taken.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	36

4.2 FIRE

FIRE HAZARDS

Fire and Emergency plan for the Client site will be followed by the ABC Company employees. However, in general, the fire safety arrangements for ABC Company are set out below.

RISK ASSESSMENT:

Likelihood	Severity	Risk Value
Score =	Score =	Result =

CONTROL MEASURES

A Fire Safety Programme shall be developed when appropriate by management to:

- (a) Guard against an outbreak of fire
- (b) Ensure as far as is reasonably practicable the safety of persons (including members of the public) on the premises in the event of an outbreak of fire.

The Fire Safety Programme shall incorporate arrangements for:

- (a) The prevention of an outbreak of fire through the establishment of day to day fire prevention practices.
- (b) The instruction and training of staff to familiarise them with fire and emergency evacuation procedures, fire call points and use of fire fighting equipment.
- (c) The holding of fire and evacuation drills.
- (d) The provision and maintenance of escape routes, free from obstruction and all exits unlocked and operational.
- (e) The provision of adequate fire protection equipment and systems.
- (f) The inspection and maintenance of the fire protection equipment systems.
- (g) The provision of assistance to the fire authorities.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	42

4.7 ELECTRICITY

ABC Company does not engage in Electrical Work. However the basic controls below are in place with regard to our offices and equipment.

HAZARDS

- Electric Shock
- Fire
- Trips or falls from loose cables

RISK ASSESSMENT:

Likelihood	Severity	Risk Value
Score =	Score =	Result =

To ensure that all permanent electrical installations and distribution networks are installed and maintained in a manner to ensure safe working conditions for all employees.

CONTROL MEASURES

1. ABC Company will ensure that the wiring installation on the premises is checked on a scheduled basis by a competent qualified electrician. The inspection should provide a report on the condition of the installation with particular reference to fire safety.
2. Dangerous or defective cabling should be replaced or remedied in accordance with the E.T.C.I.'s rules. It is important that all extensions, alterations and repairs to electrical circuits are carried out in a proper manner in accordance with E.T.C.I.'s rules.

WIRING STANDARDS

All new fixed and temporary wiring will be to the latest Irish standards and, where practicable, in compliance with the national rules for electrical installations.

Precautions to be included either are or will be as follows:

- Flexible cables will also be adequately protected against external mechanical damage.
- Flexible cables for portable equipment will be properly mechanically restrained within plugs and couplers.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	52

4.10 HAZARDOUS SUBSTANCES

No hazardous substances are expected to be used on the Client site. However, the general controls below shall be implemented if necessary.

HAZARDS

Health hazards from substances can be divided into the following categories:

- External contact - corrosive, skin absorption, dermatitis.
- Inhalation - gases, fumes, vapours.
- Ingestion - swallowing.

RISK ASSESSMENT:

Likelihood	Severity	Risk Value
Score =	Score =	Result =

CONTROL MEASURES

SUPERVISION WHEN NECESSARY

- The Workplace Supervisor will ensure that:
 - All inks and other substances are listed in a chemical register.
 - All inks and other substances have an up to date Material Safety Data Sheet (MSDS) on file.
 - The control measures listed in the MSDS are followed.
 - A written assessment, control measures and other information are on site.
 - All inks and substances are stored in an appropriate unit that is fire retardant and can contain spillages.
 - Procedures planned to handle or use any hazardous substance or process are carried out fully.
 - Any, equipment, hygiene measures or protective clothing are provided and maintained as required.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	57

- ❑ Any necessary air sampling, medical examinations, testing, etc. will be carried out as required and records will be kept on the premises.
- ❑ All measures necessary to protect other workers and the general public from any substance hazardous to health will be provided and maintained.

4.10.1 Asbestos

ABC Company does not work with Asbestos and is not a registered Asbestos remover. However from time to time it is possible that staff could come across Asbestos when replacing old insulation with new insulation. The following guidance is given to all employees.

What does Asbestos look like?

Fig 1 Asbestos insulation on a pipe



Fig 2 Asbestos panel on an external wall



Fig 3 Asbestos Cement drainage pipe



Fig 4 Pieces of Asbestos Insulating Board



When carrying out an insulation survey for a client the possibility of Asbestos being present will be considered. Should any Asbestos be identified, the Client will be advised to have a full survey undertaken

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	58

4.13 Loft/Attic insulation

Hazards

Slips and fall
 Confined space
 Manual Handling
 Fibres and dust
 Heat exhaustion/dehydration

Risks Identified:

Likelihood	Severity	Risk Value
Score =	Score =	Result =

Person at risk:

Employees / Sub-Contractors / others

CONTROL MEASURES

- All staff trained in good manual handling
- Supply of drinking water nearby
- Customer ladders (Stira, etc.) and access point swill be sued after they have been checked to ensure they are safe and sturdy.
- Staff will be supplied with suitable PPE – Overalls, Gloves, Goggles, Knee pads, Dust Mask.
- Controls for power tools as per section 4.16 to be followed.

General information for employees on glass fibre insulation

The principal difference between glass fibres and asbestos fibres is their size and the way the fibres break down. Glass fibres are cylindrical *single* fibres that can never split lengthwise; they only break across the fibre. As they break, they form tiny fragments that no longer have the properties of a fibre. Asbestos fibres, on the other hand, are always present as bundles, never as a single fibre. Asbestos fibres fracture only *lengthwise* when the bundles break apart, releasing thousands of long tiny fibres. When these are inhaled, they become trapped in the small sacs of the lungs known as alveoli. Because asbestos fibres are long, sharp, and irritating to lung tissue, the alveoli close up and trap them in the lungs. This eventually results in the lungs becoming hard, fibrous and inelastic. Over time, the continued irritations cause cancer in some individuals.

Because fibreglass breaks *across* the fibre to form tiny fragments, the tissue response is very different when these particles are inhaled. When fibreglass fragments are inhaled and deposited in the small air sacs of the lung, the alveoli do not close up and trap the particles. The particles

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	62

4.14 External Wall Cladding

Hazards

Fall from Height
 Manual Handling
 Power tools

Risks Identified:

Likelihood	Severity	Risk Value
Score =	Score =	Result =

Person at risk:

Employees / Sub-Contractors / Visitors / Others

CONTROL MEASURES

- Working area to be segregated to avoid causing injuries to passersby, occupants, etc.
- Signage to be erected alerting people to the possibility of persons working overhead.
- Controls for ladders, MEWP and Scaffold to be followed as per sections 4.16, 4.20 and 4.21.
- All tools and equipment will be serviced as per the manufactures instructions.
- Old render to be hammer-tested and removed where necessary. Ensure to wear gloves, and eye protection.
- Fungicide to be applied to wall to wash away any organic growth, ensure to review the MSD in the appendix to the safety statement and put on required PPE.
- Mix and apply the render ensuring to observe good manual handling practice and following the controls in section 4.25 on Dust and mixing.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	64

4.15 Insulation wall injection

Hazards

Working at height
 Slips and falls
 Machinery
 Substances

Risks Identified:

Likelihood	Severity	Risk Value
Score =	Score =	Result =

Person at risk:

Employees / Sub-Contractors / Visitors / Others

CONTROL MEASURES

- Compressor used to inject insulation is of a constant pressure type.
- Compressor is subject to weekly inspections and inspection by insurance company at statutory intervals.
- Full maintenance history available for the machine.
- Machine is always on the ground it is never raised on ladders or trestles.
- Where necessary the application hose is extended to reach 2nd floor walls.
- When needed for multi-storey applications the machine will be hoisted onto a solid working platform and a safe system of work will be drawn up suitable for the site where the work is taking place.
- Ensure the controls for the use of power tools are followed when drilling access holes in the walls.
- Ensure the controls for ladders and other access equipment is also followed.
- Ensure to use a service locator to find all gas, water and electric pipes before any drilling commences.
- Ensure the working area remains clean and tidy and there are no trip or slip hazards.
- Once the wall is prepared and all services marked the filling may commence as per the manufacturers instructions and technician training.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	65

4.15.1 External Wall Injection – Pumped Bonded Beads

Hazards

Slips and falls
 Machinery
 Fire and flammability – Polystyrene

Risks Identified:

Likelihood	Severity	Risk Value
Score =	Score =	Result =

Person at risk:

Employees / Sub-Contractors / Visitors / Others

CONTROL MEASURES

- The installation of pumped bonded beads does not incur any unusual or particular hazards. The task involves a survey, manual handling of equipment, drilling of holes, use of the pump and making good the holes afterwards. The basic controls that staff learn on the Safe Pass program and the various controls within this safety statement cover all of these activities.
- Installation will always be in accordance with the IAB certificates and will be under the supervision of a trained person.
- Working area to be segregated to avoid causing injuries to passersby, occupants, etc.
- General controls as per 4.15 and 4.11 to be followed.
- All drilling of walls to be undertaken as per the power tools in section 4.16.
- PPE to be worn includes dust masks for nuisance and gloves.
- Bonded beads are combustible and must not be stored adjacent to any hot works.
- No smoking while working with bonded beads.
- Any bonded beads that overflow into the roof space attic/loft are to be removed and the wall plugged with mineral wool/fiber.
- Bonded beads are delivered in a sealed container. Ensure the seal is intact before using the beads.
- Park the vehicle/pump so as not to cause any hazard to passersby.
- Pumping equipment is restricted to the qualified technician only. Only use the pumping equipment inside the vehicle as per the supplier's instructions.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	66

4.16 Power tools

Hazards:

Accidental electrocution from exposed wires
 Personal injury from incorrect use
 Personal injury from inadequate maintenance

Risks Identified:

Likelihood	Severity	Risk Value
Score =	Score =	Result =

Person at risk:

Employees / Sub-Contractors / Visitors / Others

SPECIFIC PRE-USE CONTROL MEASURES

Check before use on all Power and Portable tools:

- Is the outside of the plug undamaged?
- Is the outside of the plug free from signs of overheating?
- Is the cable free from kinking and other mechanical damage?
- Is the same true of any extension cable and accessories?
- Is the cable securely clamped into the plug at one end and securely attached at the other?
- Is the casing of the tool free of obvious damage?
- Is there a label to say that the tool has been electrically tested within the past six months?

GENERAL CONTROL MEASURES

- Damaged cables with exposed wires must be removed from site immediately and replaced with new cables.
- Repairs must not be carried out on power tools unless that person is trained and competent to do so.
- Damaged power tools must be reported Manager 1.
- Don't use damaged, worn or dangerous tools;
- Always use the correct tool for the work being carried out.
- Inspect portable leads & extension leads before use, replace if damaged;
- Sharpen or get cutting tools sharpened regularly;
- Keep hands behind the cutting edge of cutting tools;
- Wear protective equipment where necessary -gloves, safety glasses, visor and safety boots;
- DO NOT wear gloves when using portable drills;
- Keep cables tidy; don't leave cables lying on the ground;
- Quickly inspect tool before use -its cable, casing, power supply;

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	68

4.20 Ladders

HAZARDS

Note: Ladders must only be used for short periods and only where there is no suitable alternative.

- Items falling from ladders
- Working from ladders
- Throwing waste material from ladders
- Overreaching
- Overbalancing
- Ladders Falling
- Falls from Ladders
- Electrocution
- Defective Ladders

Person at risk:

Employees / Sub-Contractors / Visitors / Others

RISK ASSESSMENT

Likelihood	Severity	Risk Value
Score =	Score =	Result =

CONTROL MEASURES

- Ladders must be in good condition, free from defects and to be inspected by a competent person before ladder is to be used.
- Ladder must be positioned on solid ground - if metal check that caps on the feet are in place and in good condition.
- Ladders to be used the correct way up - strengtheners to be on the underside of rungs.
- Ladders should not be painted as this hides defects.
- The ladder must be sited on a level surface and securely tied on both sides near its upper resting place. If it cannot be tied at the top, it must be held by a person stationed at the foot of the ladder.
- Ladders must extend at least 1m over landing stage and set at a slope of out to 4 up (75°)
- Workers to climb ladders with both hands free (i.e. not carrying materials)
- Move ladder along with work to prevent overreaching.
- If ladder or run of ladders >9m, an intermediate landing stage is to be provided.
- If working near overhead cables, do not use metal ladders.
- Only one person at a time on a ladder
- Class 1 heavy duty ladders to be used in construction.
- If a ladder cannot be properly repaired, it must be scrapped
- Do not stand on top 2 rungs of step ladder
- Extension ladders > 6m long, overlap of 4 rungs required

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	76

4.24 Dust and mixing activities

Hazards

- Dust
- Fatigue
- Noise
- Vibration
- Eye injury

Person at risk:

Employees / Sub-Contractors / Visitors / Others

RISK ASSESSMENT:

Likelihood	Severity	Risk Value
Score =	Score =	Result =

GENERAL CONTROL MEASURES

- Correct PPE to be worn at all times.
- Operators know the risks of dry powder and know to avoid skin contact, excessive dust build-up and contact with eyes.
- Work area suitable to prevent excessive dust build-up.
- Water supply nearby to wash dust off skin.
- Operators wear eye protection.
- Operators keep work area clean.
- Gloves and barrier creams available.
- Safety boots to be worn to prevent lime burns on feet and ankles.
- If applying curing compound or other additives ensure you wear PPE as per the manufacturer's instructions.

ACTIVITY SPECIFIC MEASURES

- Hacking off old render
 - Use safety catch for tools
 - Construct overhead protection
 - Display warning signs at appropriate sites
 - Construct barricades for the area
 - Provide and use appropriate PPE (Safety goggles, hard hats and safety shoes)
- Storing dry mix
 - Practise good personal hygiene
 - Wear long-sleeved working attire and use impervious gloves.
- Dust
 - Provide, maintain and use appropriate respirator or mask.

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	81

4.25 Spray Polyurethane Foam (SPF)

Hazards

- Inhalation – asthma, breathing problems
- Irritation – eyes and skin
- Other hazards dependant on the particulars of the MSDS for the product

Person at risk:

Employees / Sub-Contractors / Visitors / Others

RISK ASSESSMENT

Likelihood	Severity	Risk Value
Score =	Score =	Result =

CONTROL MEASURES

- MSDS for all SPF products will be on file and hazards as well as control measures will be communicated to the installation team.
- Two component compounds will only be applied by trained staff.
- PPE comprising chemically resistant body suit, safety boots, nitrile gloves and respirator (appropriate to the product: see MSDS) to be worn by all staff applying foam.
- Vacate the area of any person not engaged in spraying or wearing protective equipment.
- Isolate the work area and erect signs to indicate same.
- Preparation
 - Make sure the raw chemical ingredients are handled and stored properly at all times before use to avoid chemical exposure.
 - Read the manufacturer's label and material safety data sheet (MSDS). Follow the directions to achieve consistent curing conditions and times. Be prepared to carefully manage temperature and other area conditions while the SPF dries or cures. Unpredictable or uncontrolled curing rates can increase the risks of exposure.
 - Make sure workers understand ahead of time how to safely handle chemicals, understand the dangers of exposure, and have the appropriate protective equipment on hand.
- Spraying, streaming, or beading application process
 - Avoid exposure to vapor, mist, particulates and dust. Make sure workers wear protective equipment (gloves,

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	82



Open-Cell SPF Two-component
"Professional" High-Pressure System:

- Low Density
- Expands aggressively
- Dries soft
- Lower R-value (~ 3.5 per inch)

*Photo Courtesy CertainTeed

Closed-Cell SPF Two-component
"Professional" High Pressure System:

- High Density
- Expands less aggressively
- Dries rigid
- Higher R-value (~ 6.5 per inch)

*Photo Courtesy CertainTeed

Two-component Low-Pressure

- Used for air sealant, adhesive, and smaller insulation applications
- Used by professionals for smaller jobs
- Sides A and B combined at application site and sprayed on as a stream or bead
- After the foam is applied, has expanded, and has cured, it may then be trimmed or cut, if needed

One-component Foam (OCF) Pressurized Cans or Canisters:

- Used for smaller applications as sealant for filling cracks, holes, gaps, and crevices
- Components A and B are combined in one container by the manufacturer off-site and the reaction of the two components is completed with ambient moisture at the time of application (moisture cured)
- Manufacturers estimate that it can take 6 to 12 hours to cure for one component foam.
- Applied as stream or bead
- OCF may be trimmed or sanded
- Professional applicators can include installation:
 - Around windows and doors
 - For sound proofing
 - For sealing up small gaps (0.5" - 3") in a building to create an energy efficient building envelope

SPF material is highly adhesive and will stick to most surfaces. SPF may appear hardened or "tack-free" within a range of a few seconds to a few minutes after application. However, at this stage, the interior of the foam is still curing and still contains un-reacted SPF chemicals. Manufacturers estimate that it can take 23-72 hours

Revision number	Date	Document owner	Approved by	Page number
01	xx/xx/xx	Manager 1	Manager 2	84