# Silica Exposure Plan

**Company:**

**Date:**

**Person Completing Plan, Title:**

**Competent Person:**

**Job Site:**

## Tasks to be performed:

- [ ] **Profile/Prep Floors - Indoors**
- [ ] **Profile/Prep Floors - Outdoors**
- [ ] **Grout/Setting Material Removal**

### Tool being used:

- [ ] **5” Handheld Grinder**
- [ ] **7” Handheld Grinder**

### Controls:

- Use a grinder equipped with the appropriate, commercially available shroud and vacuum dust collection system with the CFM requirements, a filter that is 99% efficient and filter cleaning mechanism. Where possible, signage should be placed to keep other workers at a distance at least 20 feet away from the area to prevent inhalation of dust containing silica.

### Work Practices:

- Check shrouds and hoses to make sure they are not damaged before using.
- Make sure the hoses do not become kinked or bent while working.
- If vacuum does not have a manual filter cleaning system, frequently use manual cleaning mechanism when gauge indicates full.
- Replace vacuum bags as needed, when gauges read full.
- Use tools according to manufacturer’s instructions.
- If visible dust increases, check controls and adjust as needed.

### Respiratory Protection:

- Use dust mask (APF 10) when task being performed will last more than 4 hours.

### Housekeeping:

- Dust containing silica on work surfaces and equipment must be cleaned using wet methods or vacuumed.
- Do not use dry sweeping or compressed air for removing dust and debris.
- Dispose of used vacuum bags, keep bag securely sealed.

### Restrict Access of Work Areas:

- Schedule work so that only employees who are engaged in the task being performed are in the area, or restrict access to areas being worked on. Post signage where needed.

## Tasks to be performed:

- [ ] **Cutting Tile/Fiber Cement board**

### Tool being used:

- [ ] **4” Handheld Grinder**
- [ ] **6” Handheld Grinder**
- [ ] **Wet Saw**

### Controls:

- Use wet methods for cutting tile. When cutting fiber cement board cut with a knife, avoid using a grinder.

### Work Practices:

- Make sure water hoses to the wet saw do not become kinked or bent while working.
- Use tools according to manufacturer’s instructions.
- Avoid using a grinder to cut cement board, use a knife if possible.
- If visible dust increases, check controls and adjust as needed.

### Respiratory Protection:

- None

### Housekeeping:

- Dust containing silica on work surfaces and equipment must be cleaned using wet methods or vacuumed.
- Do not use dry sweeping or use compressed air for removing dust and debris.
- Dispose of used vacuum bags, keep bag securely sealed.

### Restrict Access of Work Areas:

- Schedule work so that only employees who are engaged in the task being performed are in the area, or restrict access to areas being worked on. Post signage where needed.

## Tasks to be performed:

- [ ] **Mixing Mortar/Grout**

### Tool being used:

- [ ] **Large Mixer**
- [ ] **Handheld Drill and Paddle**

### Controls:

- Mix mortar in a well ventilated area. Exhaust air when necessary.

### Work Practices:

- When pouring dry mix, keep at a low level.

### Respiratory Protection:

- None

### Housekeeping:

- Dust containing silica on work surfaces and equipment must be cleaned using wet methods or vacuumed.
- Do not use dry sweeping or compressed air for removing dust and debris.
- Dispose of used vacuum bags and keep the container sealed.

### Restrict Access of Work Areas:

- Schedule work so that only employees who are engaged in the task being performed are in the area, or restrict access to areas being worked on. Post signage where needed.
Tasks to be performed:

- [ ] Grinding Cement/Terrazzo Floors - Indoors

Tool being used:

- [ ] Walk behind Grinder

Controls:
- Use a grinder equipped with the appropriate, commercially available shroud and vacuum dust collection system with the CFM requirements of the manufacturer, or use wet methods. Where possible, other workers should be at a distance as to not be affected by or silica dust.

Work Practices:
- Check shrouds and hoses to make sure they are not damaged before starting work
- Make sure the hoses do not become kinked or bent while working
- If vacuum being used does not have a automatic filter cleaning system, frequently use manual cleaning mechanism when gauges indicate
- Replace vacuum bags as needed
- Use tools according to manufactures instructions
- If visible dust increases, check controls and adjust as needed

Respiratory Protection:
- None

Housekeeping:
- Dust containing silica on work surfaces and equipment must be cleaned using wet methods or with a HEPA filtered vacuum.
- Do not use dry sweeping or compressed air for removing dust and debris
- Dispose of used vacuum bag in a container and keep the container sealed.

Restrict Access of Work Areas:
- Schedule work so that only employees who are engaged in the task being performed are in the area, or restrict access to areas being worked on. Post signage where needed

Tasks to be performed:

- [ ] Demolition - Indoors

Tool being used:

- [ ] Jackhammers, Chipping Hammers

Controls:
- Use the tool equipped with the appropriate, commercially available shroud and vacuum dust collection system with the CFM requirements, a filter that is 99% efficient and filter cleaning mechanism. Where possible, other workers should be at a distance as to not be affected by and silica dust. OR use a continuous water stream delivered at the point of impact.

Work Practices:
- Check shrouds and hoses to make sure they are not damaged before starting work
- Make sure the hoses do not become kinked or bent while working
- If vacuum does not have a automatic filter cleaning system, frequently use manual cleaning mechanism
- Replace vacuum bags as needed
- Use tools according to manufactures instructions
- If using wet methods, be sure there is an adequate supply of water
- If visible dust increases, check controls and adjust as needed

Respiratory Protection:
- APF10 at all times

Housekeeping:
- Dust containing silica on work surfaces and equipment must be cleaned using wet methods or with a HEPA filtered vacuum.
- Do not use dry sweeping or compressed air for removing dust and debris
- Dispose of used vacuum bag in a container and keep the container sealed

Restrict Access of Work Areas:
- Schedule work so that only employees who are engaged in the task being performed are in the area, or restrict access to areas being worked on. Post signage to limit access

Tasks to be performed:

- [ ] General Housekeeping

Tool being used:

- [ ] Vacuum with bag and filter
- [ ] Broom

Controls:
- Only use a broom with a wax based sweeping compound and only if vacuuming is not feasible. Use a vacuum with a filter and bag for collection

Work Practices:
- When sweeping, use a wax based sweeping compound
- Sweep in small areas, collect debris
- If using a vacuum, it MUST have a filter and bag
- Replace bags as needed
- If visible dust is present, check controls and adjust as needed

Respiratory Protection:
- None

Restrict Access of Work Areas: