

### GUIDANCE FOR EMPLOYERS ON CONTROLLING EXPOSURE TO RCS IN THE WORKPLACE

# GOOD PRACTICES FOR PLASTIC SHAPING IN CERAMICS AND CONCRETE

This activity relates to semi dry shaping of materials containing crystalline silica by different kinds of processes e.g. extrusion or pressing.



### **ACCESS**

- Restrict access to the working area to authorised personnel only.
- The work area and equipment should be clearly labelled.



### **DESIGN AND EQUIPMENT**

- Design the feed to the shaping device without the risk of dropping material to the work area.
- · Provide conveyor belts to feed back clay chips to recycling.
- Installation should have sufficient free area to allow easy removing of fallen down material.
- Where possible, design surfaces of installations to avoid settling of waste material.
- Avoid drying of waste material; dispose it before drying in a proper container.
- Design surfaces of auxiliary devices (e.g. dryer palettes, boards) for an easy dust free cleaning.
- For shaping devices and activities which are relevant concerning dust emission, dust extraction should be provided.



- Ensure equipment used in the task is maintained as advised by the supplier/installer in efficient working order and in good repair.
- Replace consumables (filters etc.) in accordance with the manufacturer's recommendations.



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### **EXAMINATION AND TESTING**

- Obtain information on the design performance of the ventilation equipment from the supplier. Keep this information to compare with future test results.
- Visually check all equipment at least once per week for signs
  of damage or, if it is in constant use, check it more frequently.
  If used infrequently, then check it before each use.
- Have the ventilation equipment examined and tested against its performance standard, at least once each year.
- Keep records of inspections for a suitable period of time which complies with national laws (minimum five years).
- Put in place measures to control the risk of bacterial growth within water sources used across site, focusing most on systems where water droplets will be generated.

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## CLEANING AND HOUSEKEEPING

- Clean your workplace and equipment on a regular basis.
- Deal with spills immediately.
- Use vacuum or wet cleaning methods.
- DO NOT clean up with a dry brush orusing compressed air.

### **TRAINING**

- Give your employees information on the health effects associated with respirable crystalline silica dust.
- Provide employees with training on: dust exposure prevention; checking controls are working and using them; when and how to use any respiratory protective equipment provided and what to do if something goes wrong. Refer to task guidance sheet
   2.3.4 and part 1 of the Good Practice Guide.

### SUPERVISION

- Have a system to check that control measures are in place and that they are being followed. Refer to task guidance sheet 2.3.3.
- Employers should make sure that employees have all the means to perform the checklist given below.

# PERSONAL PROTECTIVE EQUIPMENT

- Refer to task guidance sheet 2.1.15 dedicated to Personal Protective Equipment.
- Risk assessment must be carried out to determine whether existing controls are adequate. If necessary, respiratory protective equipment (with the appropriate protection factor) should be provided and worn.
- Provide storage facilities to keep personal protective equipment clean when not in use.
- Replace personal protective equipment at intervals recommended by the manufacturer/supplier.

### **EMPLOYEE CHECKLIST**

Make sure the ventilation system is switched on and is working.  Make sure it is running properly; check the manometer, pressure gauge or tell-tale.  Look for signs of damage, wear or poor operation of any equipment used. If you find any problems, tell your supervisor.	dust control equipment, ensure additional control measures are taken to reduce exposure to respirable crystalline silica dust while the	Clear up spills immediately. Use vacuum cleaning or wet cleaning methods for solids. Dispose of spills safely.  Do not clean up with a dry brush or using compressed air.  Use, maintain and store any respiratory protective equipment provided in accordance with instructions.	Check and implement the measures of controlling the risk of bacterial growth within water sources used across site, focusing most on systems where water droplets will be generated.
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This guidance sheet is aimed at employers to help them comply with the requirements of workplace health and safety legislation, by controlling exposure to respirable crystalline silica. Specifically, this sheet provides good practice advice on dust control during plastic shaping of materials containing crystalline silica.

Following the key points of this task guidance sheet will help reduce exposure.

Depending on the specific circumstances of each case, it may not be necessary to apply all of the control measures identified in this sheet in order to minimise exposure

to respirable crystalline silica. i.e. to apply appropriate protection and prevention measures. This document should also be made available to persons who may be exposed to respirable crystalline silica in the workplace, in order that they may make the best use of the control measures which are implemented.

This sheet forms part of the Good Practices Document on silica dust prevention, which is aimed specifically at the control of personal exposure to respirable crystalline silica dust in the workplace.