

**DO NOT** use this equipment unless an instructor has instructed you in its safe use/operation and has given permission.



Safety glasses must be worn at all times in work areas.



Long and loose hair must be contained or constrained.



Appropriate footwear with closed-toe must be worn.



Long-sleeve or protective clothing is required.



Rings and jewellery must not be worn.



Protective gloves may be required.

## PRE-OPERATIONAL SAFETY CHECKS

1. Check workspaces and walkways to ensure no slip/trip-hazards are present.
2. Check that all equipment components are in position and are operational.
3. Ensure you are familiar with the operation of the equipment.
4. Keep table and work area clear of all tools and debris.
5. Faulty equipment must not be used. Immediately report suspect equipment.
6. Be aware of any other students or personnel in the immediate vicinity and ensure the area is clear before using this equipment.
7. Familiarize yourself with all mechanical operations, switches and controls, including potential chemicals that may be used.
8. If you have any questions or concerns, ask the laboratory technician or instructor first.

## OPERATIONAL PROCEDURES

### **NO FOOD OR DRINK PERMITTED NEAR EQUIPMENT.**

1. Never use the electrical mixer outdoors in the rain.
2. Never use the mixer without all guarding in place.
3. Ensure that the area does not contain any hazards that may impact on the safe operation of the mixer.
4. Never insert your hands into a rotating mixer bowl.
5. Be conscious of your manual handling techniques when adding cement powder, gravel or sand to the mixer bowl using a shovel (or similar).
6. Regularly inspect the mixer bowl for consistency and suitability for the concrete mix.
7. Never leave the mixer running unattended.

## HOUSEKEEPING

1. Turn off all equipment and dispose of chemicals in proper receptacles on completion. Leave equipment and working area in a safe, clean and tidy state.
2. While still wet, wash out with clean water.
3. Allow the mixer to revolve to wash the interior and carefully clean off the exterior.
4. Disconnect the electrical AC power source.
5. Clean up the work area.
6. Return the mixer to a secured storage area.

## POTENTIAL HAZARDS

- Chemical exposure on skin
- Noise
- Eye injuries
- Burns
- Electrical shock
- Manual handling
- Skin irritation from cement or additives

Date of last review \_\_\_\_\_

Signature \_\_\_\_\_