



## CONCRETE FLOOR PLANE (110/230V)

### SAFETY PRECAUTIONS & WARNINGS

It is in the interests of those operating this equipment, and for the safety of others, that these **SAFETY PRECAUTIONS & WARNINGS** are carefully read and understood before operating this equipment.

### PURPOSE

1. This equipment is designed for planning and preparation of concrete surfaces.

**NOTE: To ensure correct, effective and economical use of this equipment, this safety leaflet must be read in conjunction with this equipments user-operating manual.**

### PERSONAL SAFETY

2. This equipment is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it. It must not be operated by minors, or by anyone under the influence of drugs or alcohol.
3. If the equipment is not used in a safe, careful and controlled way, personal injury or injury to others may result.
4. Before attempting to operate this equipment you must familiarise yourself with the equipment, its controls and operating characteristics.
5. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
6. Vibration from this equipment may be at a level that could be hazardous to the user, if operated for extended periods. Always wear gloves and ensure hands are warm before starting work and they remain warm and dry. Do not grasp the equipment too tightly, only sufficient to safely control the machine. If you experience tingling, numbness or loss of strength in the fingers – stop working immediately. Take frequent breaks and exercise the hands and arms to minimise risks.
7. When using this equipment, it is recommended that the following items of Personal Protective Equipment (PPE) be worn:
  - Ear defenders providing protection up to 95dB(A).
  - Dust mask to a minimum protection of EN149ffp2(s).
  - Impact resistant goggles to EN166-B or BS2092. grade 1 protection.
  - Safety footwear to EN345.
  - Safety helmet to EN397 or BS 5240.
  - Appropriate industrial gloves.

**NOTE: Other types of work, or environment, may require a higher level of PPE.**
8. With regard to electrical safety implications when using this equipment, see the section on 'ELECTRICAL SAFETY' below.

### ELECTRICAL SAFETY

9. The operating voltage of this equipment may be either 110v (yellow industrial plug connector), or 230v (square pin or blue plug connector).

#### 110v FLOOR PLANES (Yellow Plug)

10. Only use a portable transformer and only plug the transformer directly into the 230v socket.

11. Only suitably rated, heavy-duty 110v extension cable, not longer than 50m (160ft), must be used between the transformer and the equipment. Do not use 230v extension cables.
12. When routing the extension cable, avoid emersion in liquids and trapping the cable in windows, doorways and other areas that could cause damage to the cable. Avoid laying the cable in areas that are subject to site traffic. Ensure all connections are kept dry.

#### 230v FLOOR PLANES (Square Pin or Blue Plug)

13. To safeguard against electrical shock, always connect the equipment into a residual current device (RCD) that in turn is connected to a 230v socket.
14. Before using the equipment, press the 'RED' test button on the RCD to ensure that it is working. Re-set the RCD according to the instructions provided.
15. Only suitably rated, heavy-duty 230v extension cable, not longer than 50m (160ft), must be used between the mains (RCD) and the equipment.
16. When routing the extension cable, avoid emersion in liquids and trapping the cable in windows, doorways and other areas that could cause damage to the cable. Avoid laying the cable in areas that are subject to site traffic. Ensure all connections are kept dry.

### OPERATING AREA SAFETY

17. Before commencing work, ensure that the area you are to operate the equipment in is a safe environment. Erect safety barriers and warning signs as necessary.
18. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes, etc.).
19. Before commencing work, warn others who may be working in the vicinity of the equipment, to keep clear. If possible place safety barriers around your work area.
20. Anybody who is working near to you will also need to wear the appropriate PPE.
21. Protect others from noise, dust and debris.
22. Ensure the area you are working in has adequate ventilation.
23. Do not use this equipment where there is a danger of igniting fumes from petrol or gas cylinders.

### BEFORE OPERATING THE EQUIPMENT

#### SAFETY CHECKS

24. Visually inspect the equipment and all its accessories for serviceability (completeness, signs of damage, undue wear, etc.). Do not use the equipment if found damaged or worn - contact the hire company immediately.
25. Before attempting to operate the equipment, familiarise yourself with the equipments controls. Make sure you understand their purpose and function.
26. Do not use this equipment in the rain or where it could become wet.
27. Before you start the equipment, you must know how to **STOP** it in an emergency.

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## **OPERATING THE EQUIPMENT**

### **USING THE EQUIPMENT**

28. This equipment is heavy, enlist the assistance of others to help when unloading and moving it to the work place.
29. Adjust the handle to the correct working height and secure it before commencing work.
30. Always use both hands on the handle to hold and control the floor plane.
31. Keep feet, clothing and electrical leads clear of the equipments flails.
32. Ensure the area to be work on is free from objects and other obstructions in the intended path of the equipment.
33. The flails can be raised or lowered by rotating the wheel height adjuster. Turning the adjuster **ANTICLOCKWISE** to **RAISE** the flails, **CLOCKWISE** to **LOWER** the flails.
34. When running, the equipment will create large quantities of dust. Attach a suitable dust extraction system hose to the dust extractor tube on the equipment.
35. Connect the power supply plug to its corresponding socket on the equipment.
36. To start the equipment, rotate the starter switch from the '0' position through the '1' position to the '**START**' position and hold it there for approximately three seconds. Once the equipment has started, rotate the starter switch to the '1' position.
37. Adjust the height of the flails as per 33 above.
38. Always ensure the equipment is operating at its optimum running speed before attempting to use it.
39. Be aware of the reactive forces when the flails first contact the work surface.
40. Work over the area to be planned in a methodical manner, ensuring the equipment is kept moving. Do not let allow the flails to rotate run whilst the equipment is stationary.
41. On completion of work, raise the flails (see 33 above) and rotate the starter switch to the '0' position to stop the equipment.
42. Stop working and switch-off the machine if someone approaches you.
43. Stop the equipment and un-plug it before moving it or making any adjustments.

### **SECURITY AND MAINTENANCE**

44. Visually check the condition of the equipment at the start of each day.
45. If the equipment operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
46. Periodically clean the equipment to ensure it is free from dust, dirt and other debris.
47. When the equipment is left unattended for long periods (i.e. overnight), ensure it is made secure to prevent unauthorised use or loss.