



Using the Paddle Mixer

1. Wear your protective equipment including goggles, safety boots and ear protection.
2. Ensure all guards and covers are in place before using the mixer.
3. Ensure paddles are rotating before adding the mix. Stop the paddles before dumping the mix.
4. Do not move the paddle mixer while the drum is full or while the engine is running.
5. Do not attempt to repair or service the machine while it is running.
6. Stop the engine if leaving the machine unattended.
7. The exhaust and other parts get very hot in use; take care not to burn yourself.
8. You must dispose of the waste from unused mixes properly; follow the instructions on the manufacturer's container or leaflet.
9. You must clean the mixer and especially the drum and paddles as soon as you have finished work before the mix goes hard.

You may want to read this leaflet again. Please keep it until you finish work

Paddle Mixer

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read all of this leaflet BEFORE you use the Paddle Mixer

1. Plan your work and think ahead to make sure you will always be working safely.
2. Petrol is highly flammable. Take care not to cause a fire or explosion.
3. Cement, epoxies and other mixes can be harmful to eyes, lungs and skin. Follow any instructions given by the manufacturers of these products.
4. This paddle mixer is designed for mixing cement, mortar, plaster and similar fine compounds with water or other liquids.
5. Do not use it to mix gravel, ballast and aggregates.
6. The action of this mixer can cause injury or damage if the machine is not used in a correct and controlled way.
7. If you have not used this type of paddle mixer before, learn how the machine works and make sure you fully understand the controls before you start work.
8. Do not allow anyone to operate the machine unless they have experience or have received instruction.
9. You must have at least the following items of personal protective equipment: Goggles: EN166 or BS2092; Ear muffs or plugs giving protection for levels up to 90 dB(A); Dust mask – a minimum of EN149: 2001FFP3 protection; Safety boots to EN345 or BS1870/4972; Gloves.
10. This machine must not be used by minors, or by anyone under the influence of drugs or alcohol.
11. This paddle mixer is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.



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STARTING THE ENGINE

1. Check that the engine and machine controls are set correctly.
2. Make sure that you hold onto the machine firmly so it will not move when you pull the starter.
3. Pull the starter handle slowly until you can feel that the starter has engaged with the engine, then pull it quickly and strongly. Don't pull it too far, or it may break.
4. Guide the cord back into place so that it recoils correctly.

DRUM

1. If using a vertical shaft paddle mixer, empty the mix by opening the discharge port and the rotating paddles will push the mix over and into the wheelbarrow.
8. If using a vertical shaft paddle mixer, empty the mix by opening the discharge port and the rotating paddles will push the mix over and into the wheelbarrow.
7. If using a horizontal shaft paddle mixer you should stop the paddles before dumping the mix.
6. The paddles will not rotate until you operate the clutch with the engine running.
5. Start the paddles rotating before loading a mix. Starting with a full load could strain or break the paddles or drive shaft.
4. Paddle mixers are not designed to mix gravel or aggregate used in concrete.
3. Other machines have paddles adjusted to rotate just clear of the drum, these mixers can mix slightly coarser materials.
2. On some machines the paddles are adjusted to rotate in contact with the drum, these mixers are for fine materials only.
1. Do not alter the hire company's adjustment of the paddles.

PADDLES

3. Check your engine, paddles and drum. If anything is found damaged, do not use the paddle mixer – contact the hire company.
4. Stop the engine and remove the spark plug lead before adjusting or servicing the paddle mixer.
5. Find out how all the controls work, before you start the mixer you must know how to stop it.

REFUELLING

1. No smoking.
2. Stop the engine and let it cool down.
3. If possible move the machine away from your work area.
4. Clean the filler cap and the area around it to prevent dirt falling into the fuel tank.
5. Use a funnel and clean petrol when refuelling. Do not fill the tank too full.
6. Do not spill any fuel on yourself or the machine.
7. Wipe any fuel off the machine. Dispose of fuel soaked cloth carefully.
8. If you spill any fuel on the ground, wipe it up or cover it with soil.
9. If you spill any fuel on your clothes, change them straight away.
10. Put all fuel caps back on properly, and move your fuel can to a safe, cool place.

WORK AREA

1. Do not use this paddle mixer where there is a danger of explosion. It will ignite fumes from petrol, or gas cylinders.
2. Using this equipment indoors or in confined spaces could cause fatal carbon monoxide poisoning. Never use it in domestic premises and only use it in other situations if its suitability and the ventilation required has been assessed. Mechanical extraction ventilation will almost always be required.
3. Make sure that the area is clear and safe and that no-one is near to you or could distract you.
4. Ensure that the paddle mixer is sited safely on a firm level surface within your work area. It should be near to the materials to be mixed, and to the location where your mixes will be used.
5. Protect other people from the noise and dust. Warn others to keep away, put barriers or warning signs around your work area.

OPERATORS

1. The following items of personal protective equipment (PPE) are the minimum that should be worn whenever you use this mixer. Particular jobs or environments may require a higher level of protection.
 2. You must wear goggles (EN166 or BS2092) when you are mixing hazardous substances such as cement.
 3. You will need to wear an appropriate dustmask (with a minimum of EN149:2001FFP3 protection) when you are mixing materials that cause dust up to 90 dB(A) – wear appropriate ear muffs or plugs giving hearing protection for this level as a minimum if you intend to work with the mixer continuously.
 5. You must wear safety boots (EN345 or BS1870/4972).
 6. A risk assessment or site regulations may require you to wear a safety helmet.
 7. You should wear gloves, overalls with long sleeves and full trousers to prevent cement or other mixes coming into contact with your bare skin.
 8. Anybody who is working near to you will also need to wear appropriate personal protective equipment.
2. Different models of paddle mixer may have different safety features; take note of any extra instructions from the hire company.
3. Paddle mixers are classed as vertical shaft (upright drum) or horizontal shaft (drum on its side).

GENERAL

1. You are responsible for the safety and security of this equipment; store it securely, especially overnight.
2. If your equipment does not work properly do not attempt to repair it. Contact the hire company.

CEMENT MIXES AND CONTACT DERMATITIS

1. Wet cement mix is one of several substances that can cause contact dermatitis.
2. Contact dermatitis is a rash that may occur when the skin reacts to certain substances. The rash can vary but it is usually itchy and causes flaky skin. The rash occurs only where the substance was in contact with the skin.
3. Wash cement or plaster mixes off your skin immediately. Thoroughly rinse out your eyes.
4. Mild dermatitis will heal providing there is no further contact. If the rash persists seek medical advice.

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