
























Risk assessment for : Malc Firth Landscapes Limited


















Risk assessment name	Cement Mixer	Assessment type	 General
Assessor name	Peter Swain	Affected site(s)	Malc Firth Landscapes Limited (PE20 2HY)
Assessment date	02/10/23	Review period	Annually
Approved by	Peter Swain	Review date	02/10/24
Approved date	02/10/23	Reference	Mal1959105














Workspace(s)	Description
 Access / Egress  Outside Area  Processing	This Risk Assessment is an example only and must be reviewed / amended to suit your own business practices and working environment.

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Cement dust Inhalation of cement dust</p>	<p>Contractors, Operators</p> <p>Persons in the vicinity of work</p> <p>How? Irritation of the upper respiratory system due to inhalation of unused cement dust. Eye irritation due to splashing if wet cement and cement dust. Burns and severe irritation to skin from exposure to cement dust and wet cement, this can result in workers developing dermatitis.</p>	 <p>Information, instruction and Training Information, instruction and Training given to workers on the hazards associated with working with cement.</p>  <p>Minimise Dust Creation Minimise dust created by using pre-mixed mortar, try to increase the distance between the employee and the mixer where possible. Ensure cement is used before its shelf date expires as the ingredient to reduce contact dermatitis is only effective for a limited period.</p>  <p>Respiratory Protective Equipment Respiratory Protective Equipment (RPE) provided and worn when required. RPE should have an Assigned protection factor of 20. Face fit testing should also be included for RPE that requires a tight fitting seal.</p>	<p>2 x 4</p>  <p>8</p> <p>Medium</p>

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Contact with Cement Dermatitis from contact/over exposure to mortar and concrete substances.</p>	<p>Contractors, Operators, Persons in the vicinity</p> <p>How Many? all</p> <p>How? Respiratory irritation due to inhalation of cement dust. Eye irritation due to splashing of wet cement and cement dust. Harm due to ingestion Skin dryness or cracking due to repeated exposure to cement dust and wet cement, leading to serious skin conditions such as burns and dermatitis</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>Adequate washing facilities on site Wet cement or cement dust particles should be removed from the skin immediately. Hands should be thoroughly washed removing all contaminants and dried. Barrier cream should be re-applied.</p> </div> <div style="width: 50%;">  <p>Avoid breathing dust Avoid breathing dust, wear FFP3 face mask when opening cement bags or handling cement powder.</p> </div> <div style="width: 50%;">  <p>Avoid Creating dust Cement should be placed into the mixer carefully in small loads to prevent the creation of large amounts of dust in the surrounding air.</p> </div> <div style="width: 50%;">  <p>COSHH assessments communicated COSHH assessments have been communicated to relevant employees.</p> </div> <div style="width: 50%;">  <p>Employees trained in COSHH procedures Employees have been trained in how to use the chemicals and the safe system of work.</p> </div> <div style="width: 50%;">  <p>Eye Protection Must Be Worn Eye protection to be worn to prevent ejected materials from contaminating the eyes.</p> </div> <div style="width: 50%;">  <p>Eye wash available Eye wash locations to be available on site, workers to be aware of their locations.</p> </div> <div style="width: 50%;">  <p>Gloves should be worn Gloves to worn when mixing and handling cement</p> </div> <div style="width: 50%;">  <p>Induction Training Workers to have received a thorough site induction before being allowed on-site and operating equipment.</p> </div> <div style="width: 50%;">  <p>No Food or Drink No food and drink permitted in areas on-site unless designated eating areas.</p> </div> <div style="width: 50%;">  <p>No Smoking Site to operate a strict no-smoking policy.</p> </div> <div style="width: 50%;">  <p>Safe system of work</p> </div> </div>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Entrapment Entrapment in moving, unguarded parts of equipment.</p>	<p>Contractors, Operators</p> <p>How? Entrapment in moving, unguarded parts of equipment. loose clothing could become trapped in parts in the mixer. Leading to sprains, strains, broken bones and other serious injuries</p>	 <p>Confirm loading requirements prior to event Requirements confirmed for loading/ unloading prior to event. Cement mixers should be isolated when they are loaded, loading must not take place when the mixer is in motion. Hands, arms or tools must never be placed in or near the mixer when in motion.</p>	<p>2 x 4</p>  <p>8</p> <p>Medium</p>
 <p>Manual Handling Activities Manual handling activities, including lifting, lowering, pushing, pulling or carrying. Risk of injury due to sprain or strain.</p>	<p>Contractors, Operators, Persons in the vicinity</p> <p>How Many? All</p> <p>How? Bodily injury due to movement of bags cement to the work area, Movement of mixed cement to the work area. Transfer of cement to the wall. Leading to sprain and strain injuries and other musculoskeletal disorders.</p>	 <p>Manual handling procedures followed All equipment will be of such size and weight that it can be safely handled by one employee Where by necessity it is too large or heavy for one operator to handle safely a manual handling risk assessment will be carried out and specific control measures applied e.g. mechanical handling aids, two people etc. Also materials should be loaded in smaller loads in close proximity to the cement mixer. Job rotation should also be implemented.</p>  <p>Manual handling training All staff are trained in Manual Handling and instructed to comply with good manual handling techniques.</p>  <p>Two man lift Two persons to lift items when required.</p>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Noise (Excessive Exposure) Potential of hearing loss due to excessive exposure to noise.</p>	<p>Contractors, Operators</p> <p>How? Employees in close proximity to the cement mixer whilst in operation may be exposed to noise levels above 80 db (lower exposure action level) and above 85 db (upper exposure action level) leading to tinnitus or ringing in the ears. Prolonged exposure to lower action levels can lead to permanent hearing loss.</p>	 Ear protection provided Hearing protection available and to be worn whilst carrying out noisy work activities  Equipment is suitable for the use Check if newer, quieter equipment is available to hire or purchase.	<p>2 x 3</p>  <p>6</p> <p>Medium</p>
 <p>Poor Lighting Activity may become difficult in low light.</p>	<p>Contractors, Operators, Persons in the vicinity</p> <p>How Many? All</p> <p>How? Bodily injury due to inappropriate work position Bodily injury due to slips, trips and falls in poorly lit areas whilst using the cement mixer</p>	 Suitable external task lighting Suitable task lighting is provided outside of the building.	<p>2 x 2</p>  <p>4</p> <p>Medium</p>

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Use of 110 v electrical equipment Faulty electrical equipment or contact with live electrical components.</p>	<p>All staff, Contractors, Operators</p> <p>How? Employees can suffer electric shocks from faulty electrical equipment or contact with live electrical components resulting in possible thermal burns, muscle, nerve and tissue damage and cardiac arrest.</p>	<p> All operatives who carry out this work have been trained and competent Only persons trained in the use of this equipment are permitted to operate it.</p> <p> Centre tapped transformer Power to the cement mixer to be supplied by a centre tapped transformer, this should be inspected prior to use and certified in the last 3 months in accordance with the Electricity at Work Act.</p> <p> Relevant equipment PAT Tested regularly Cement mixer is to be PAT tested and in date.</p> <p> Battery charging procedures Batteries not charged at rates in excess of manufacturer's recommendations</p> <p> Pre Use check carried out Visual pre-user checks to be carried out by a competent person.</p>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>
 <p>Wet/Slippery Floors Water and wet cement dropped or spilled on the ground near to the cement mixer or materials being ejected from the mixer whilst in use.</p>	<p>Contractors, Operators, Persons in the vicinity</p> <p>How Many? All</p> <p>How? Water and wet cement dropped or spilled on the ground near to the cement mixer or materials being ejected from the mixer whilst in use. Leading to slips and trips causing sprain, strains and other serious injuries from impacting the ground and other objects.</p>	<p> Daily housekeeping inspections are carried out</p> <p> Provisions of Written Safe Systems of Work</p> <p> Good Housekeeping Observed</p> <p> Spillages cleaned up immediately All water and cement spillages to be cleaned up immediately.</p>	<p>2 x 4</p>  <p>8</p> <p>Medium</p>

Further control measures

Supporting evidence

[hsg53.pdf](#)

08/06/20 -1591368 kb

[manual handling assessment.doc](#)

08/06/20 -160768 kb

Assessor's signature: Peter Swain

Approved by signature: Peter Swain