

## 5 -7 LANCASTER GROVE NW3 4HE

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### 1. Work Details

#### 1.1 Description of Work

This Safe System of Work (SSoW) should be read in conjunction with all Task Briefing Sheets created during the works. The following works are to be undertaken under this SSoW:

- Piling operations

#### Pre works

Before any works commence a Permit to Pile must be obtained by GEOBOND OPTIC REALM(OR)

The work site will be set up to include an exclusion zone with warning signs.

#### Typical Sequence of Works (Daily)

- Piling locations to be set out by the OR Engineer (Pins and mushroom caps)
- Piling rig tracked to the first pile location (under direction of Banksman).
- First location bored to design depth.
- Concrete pumped into pile.
- Rig tracked to next location.
- Pile cage inserted into concrete using the excavator and driver provided by OR
- Arisings from boring removed by the excavator and driver provided by OR
- Process repeated for each pile.
- After last pile of the day concrete pump and pipes to be cleaned.

#### Piling Works

#### Site Set-Up

- Where necessary drain covers will be protected using road plates which will be positioned by the excavator using certified lifting strops.
- A 14-tonne excavator and operator will be supplied by OR
- The static concrete pump and slave drum will be delivered by trailer and located as directed by the site personnel. Concrete is not to be mixed on site but will be delivered by concrete trucks which will be directed to the pump under the guidance of a trained Banksman.

- Locations of the piles to be marked out by OR.

### **Piling Machine Delivery**

**Delivery time will depend upon contents of movement order issued by METROPOLITAN Police. We expect this activity will occur between 2am and 5am weekday**

### **Removal of the rig from site will be achieved using the reversal of this process**

- The Banksman will set up a protective area for delivery of the piling machine to prevent others from entering the danger area.
- Access to the site will be from LANCASTER GROVE
- Transport vehicle will be met by the GEOBOND operative.
- The banksman will direct the delivery vehicle at all times.
- Where necessary drain covers will be protected using road plates by OP which will be positioned by the excavator using certified lifting strops.
- Ply sheeting will be laid on the road by OP to protect the surface whilst the piling machine is unloaded.
- Once at the delivery point, the trailer will be disconnected from the truck which will be moved clear of the unloading area.
- The piling rig will then be unloaded adhering to the following instructions.
- Ensure that the low loader is parked on firm, level ground prior to loading.
- Whilst unloading the machinery, travel at the slowest speed possible. The ramp surface should be clean and free of mud, oil or grease.
- If slewing is necessary when the machine is on the trailer, do this as slowly as possible ensuring that other people are at a safe distance.
- Once unloaded the piling rig will be tracked to an overnight storage point under the direction of the Banksman.
- The truck and trailer will be reconnected and under the direction of the Banksman reversed down the road.

### **Prepare piling locations**

- The pile locations will be scanned using a Radiodetection RD8000 scanner by OP to establish if any buried services are present. Should any services be detected then work will not commence until a safe system has been established.
- A piling mat has been laid using an 14 Tonne excavator in accordance with the approved design and compacted using a roller operated by a competent person.
- A dedicated refueling point will be set up for the plant. A double-skinned diesel bowser will be located at the designated static refueling point and plant will be tracked to the bowser for refueling under the direction of a banksman. A banksman will also be required in the event that other vehicles are operating in

the vicinity of the store. The bowser itself has a lock which will also be locked between shifts and a spill kit located within the refueling site.

- The COSHH Assessment for diesel is attached.
- In the event of spillage, the bund should contain the diesel. Sand will be used to absorb the spillage which will then be shoveled into containers for removal from site and disposal to a licensed hazardous waste disposal facility.

### **Piling Permit**

Piling to piling operations commencing, a Permit for the use of a Piling Rig will be submitted for approval and works will not commence until that approval is secured.

### **Construction of Piling Cage**

- The area where the works will be taking place will be segregated and demarked by physical barriers.
- Bandstands will be set up to construct the cage on.
- 6 metre long lengths of rebar will be placed on the bandstands by hand.
- The spiral reinforcement will be added to the long length rebar.
- The spiral rebar will then be tied to the long length rebar using nips and tying wire.
- The cage will be rotated as the lengths are tied to the spiral circumference.
- Once the cage is completed it will be lifted off the bandstands using the excavator and slinging team as per the lift plan.

### **Delivery of Concrete**

- The pump will be operated by a trained and certified operator.
- All pipe connections prior to pumping will be checked by the operator to ensure safety pins are in place.
- The concrete wagon will discharge into the hopper and the concrete will be pumped in to the Agitator.
- Preferably concrete trucks will not be cleaned on site. In the event that it is required to do so then they will wash out into the polythene lined washout skip provided by the Main Contractor.

## **Piling Process Overview**

Prior to works starting in the morning a logistic plan will be agreed with all parties based on the works completed the previous shift, this way all staff are aware of the plant movements.

- A hollow auger to screw into the ground to design depth. Concrete is pumped through the auger whilst it is withdrawn. Spoil will be cleared by excavator on a continuous basis.
- A steel reinforced cage is then inserted in to the concrete using the excavator fitted with certified strops.
- The weight of the cage with guidance from operatives allows it to sink through the concrete until it reaches the required depth at which point a steel base will be used to hold the cage in place. there is no percussion element to the operation.

The process is the same for all piles. Piling machine will be tracked from one location to the next under the direction of a banksman.

### **Piling Works - Drilling**

#### **ALL OPERATIVES TO REMAIN CLEAR OF AUGER AND PILE WHILST ROTATING**

- Set out pile position using 450mm long pin suitably tagged with pile number and protected with yellow mushroom caps. Positions and pile numbers to be confirmed by the MD Site Engineer.
- The operatives will be made aware of CPA Safety Publication Series Good Practice Guide Safe Use of Concrete Pumps. This document will be held in the site office.
- Check fluid levels in power pack and rig, run up plant and check for leaks.
- Track rig to pile position under the guidance of a trained banksman.
- Set up rig over pile position ensuring mast is vertical.
- Commence drilling using piling rig.
- Check pile depth and ensure auger and pipe sleeve is vertical using on board computer.
- Remove arisings from work area using the excavator to the temporary stockpile.
- Stockpile to be removed daily with the excavator being used to load trucks.
- Is any asbestos fragments are discovered in the arisings then work will stop until the Licenced Asbestos Contractor has dealt with the removal of the fragments.
- Continue this process until required depth is reached.

### **Piling Works - Installation of Pile**

- Concrete will be held in agitator while the drilling works takes place.
- The concrete pump and agitator will be operated in accordance with the manufacturer's operating instruction.
- Once the correct depth is attained the concrete installation will start.
- The hoses will be acted to the rig.
- All pipe connections prior to pumping will be checked by the operator to ensure safety pins are in place.
- In conjunction with the static concrete pump, begin to inject concrete through auger whilst it is being withdrawn, continue this until the auger has been completely withdrawn and the pile is concreted to the required formation level.
- Operatives to monitor pipes whilst pumping progresses.
- Reinforcement cage is lifted over the pile using the excavator with certified chains and lifting team as per the Lifting Plan.
- The reinforcement cage is then lowered into the concrete under the guidance of a slinger / banksman, and with the assistance of operatives allowed to sink until it reaches the required depth at which point it will be secured with a steel bar to hold the cage in place.
- Chains are then detached.
- All piles that are above the piling mat level to be clearly identified with bunting tape and ends of reinforcement bars protected with yellow mushrooms.
- Chains will be stored overnight in a dry container.

### **Blockages**

In the event of a blockage the following procedure will be followed:

- Only the pump operator will be authorized to deal with blockages.
- All line blockages must be treated carefully. After locating a blockage or rock jam, always make sure the line is no longer under pressure before attempting to clear it. Reverse the pump to depressurise the system. Once depressurized the equipment to be powered down.
- All work to stop whilst the blockage is located.
- Pump operator to identify location of blockage. Tapping the line will often indicate where the blockage has occurred.
- After relieving the system pressure, remove the coupling at the joint nearest the jam. Never straddle a horizontal line when opening a coupling - stand to one side.
- Lift the line so that all the freeflowing concrete runs out.
- Drill the auger into the ground if access is required to the swanneck/top pipes
- Bend the hose or tap on the pipeline in the area of the block and shake out loose particles. After the line has been cleaned out, replace the section and resume pumping.

**NB. COMPRESSED AIR MUST NEVER BE USED TO ATTEMPT TO CLEAR BLOCKAGE.**

### **Cleaning of Lines and Pump**

- The piling rig is fitted with a self-cleaning system which cleans the auger as it is withdrawn, leaving the resultant debris at the piling site.
- The pump and pipes are cleaned by blowing a cleaning ball through, and pumping into 1 tonne bags which will contain the concrete until removal from site the following day.
- Work Face Debris will then be removed by the excavator to stockpile .
- Once the lines have been depressurised they will be disconnected from the pump.
- The hopper will be cleaned out into a plastic tub which will be situated under the hopper in a polythene and concrete bunded area.
- The tub will be left to settle.
- Once the tub has settled the water will be drawn off and used for dust suppression on the piling matt and the solids will be moved by the excavator into the concrete skip.

### **Duration of Works**

The works specific to this SSoW will take approximately 20 days.

### **Working Hours**

The works will be carried out between 08.00 and 18.00 hours on Mondays to Fridays – excluding rig delivery and collection

### **Control of Activity Risks**

All aspects of the scope of works will comply and be carried out in accordance with relevant legislation.

**The following hazards are applicable to work activities:**

- Slips, trips and falls
- Manual handling of plant, tools, equipment and waste materials (assessments attached).
- Use of general portable tools
- Dust
- Excavations
- Noise
- Vehicle and plant movements
- Piling
- COSHH
- Lifting
- Pumping

Risk Identified	Controls specified
1. Slips, trips and falls	Clean and tidy work site; good housekeeping, good footwear, keep access and egress route clear of obstructions.
2. Manual handling	<p>All loads to be inspected for stability prior to unfastening straps</p> <p>Trolleys will be used for moving materials around the site.</p> <p>Where possible materials will be delivered direct to the workforce.</p> <p>Operatives to lift loads with knees bent and on level ground. Only lift what is comfortable.</p> <p>Where weights are too heavy to lift or are over 25kg, double up on labour and / or use mechanical aid as per lifting plan.</p> <p>Operatives to wear gloves when handling plant, cable &amp; access equipment.</p> <p>Manual handling assessments to be undertaken.</p>
3. Electricity	<p>During excavation, should cables be exposed, work will stop immediately and the Principal Contractor will be informed.</p> <p>The Principal Contractor will inform the DDM as necessary.</p> <p>Signage displayed to work of working.</p> <p>Plant operatives will be briefed on the presence of overhead cables and banksman will ensure the safe positioning of plant</p>
4. Use of general portable tools	Ensure plant and equipment is fit for purpose and in good working condition. Ensure operatives are trained in its use. Provide suitable PPE and ensure all electrical tools are PAT tested.
5. Dust	<p>Arising to be removed as soon as practical, firstly to the stockpile and then off site.</p> <p>Barriers will be erected around each work area.</p> <p>Full PPE to be worn including gloves, dust mask and safety glasses to be worn at all times.</p> <p>A water source is available so damp down where possible.</p>
6. Noise	See Noise Risk Assessment (Appendix 5). Toolbox talks will be given to ensure operatives are aware of their responsibilities during engineering hours, including that no shouting is allowed in site, no revving of vehicle engines.



7. Works vehicles - delivering Operatives/materials/equipment/ Tools to site.	SPC Briefings. Operatives will be instructed not to shout out to each other or swear and avoid dropping / clashing / banging any waste metal materials which may cause a disturbance. Any revving of vehicle engines will not be permitted. All deliveries and removals to be under the direction of a Banksman.
8. Piling	Piling Operator to be trained. Area to be barriered off and access restricted to essential Personnel only. Piling site to be scanned to ensure the absence of buried services.
9. Excavations – contact with buried services.	Areas to be scanned prior to breaking or undertaking piling operations using a Radiodetection RD8000 scanner.
10. Refuelling	A dedicated demarcated area to be set up for refueling. Operatives to observe the COSHH Assessment for diesel. A dedicated fire point to be set up with spill kit. No smoking or naked flames. Fuel to be stored in self banded bowser.
11. Lifting	Works to be carried out under a Lifting Plan. All connections to be carried out by a Certified Slinger / Signaller /Banksman.
12. Pumping	Pump to be operated by a certified and competent person. Pump to undergo daily plant checks.
13. Working from a MEWP.	Operatives to be trained. Outriggers to be used where provided.

## Resources

The minimum labour force will consist of the following (relevant qualifications are listed in the section entitled 'Training').

- 1 x Concrete Pump Operator
- 1 x Slinger Banksman

Position / Title	Training Required
Piling Rig Operator	CSCS Plantmaster Operator Ticker
Pump Operator	CSCS Plantmaster Operator Ticker
Slinger Banksman	CSCS

## Personal Protective Equipment (PPE):

The following items of PPE have been identified as being required when undertaking tasks listed.

TASK	PPE	BS EN / STANDARD
All tasks	Safety Helmet	BS EN 397: 1995
All tasks	Safety Boots	BS EN 20345:2004 Steel top caps/mid sole Protection (not rigger boots)
All tasks	HI-vi Vest	BS EN 471 Class 2 with OMC logo / name
All activities	Eye Protection	BS EN 420
All activities	Hand Protection	BS EN 388 sufficient to reduce risk of abrasions
Piling	Ear defenders where Noise Risk Assessment indicates	BS EN 352

***Additional PPE may be required following task specific Risk Assessments.***

**Noise and Vibration:**

The works are not expected to create significant levels of noise and vibration. The piling equipment is of the auger type and does not use percussion to drive the piles.

Ongoing noise monitoring will be undertaken to ensure that safe levels are not exceeded.

**Tools and Equipment**

All plant, machinery and equipment on site will comply with safety standards and will be in full working order. Any electrical tools to be used on site will be PAT tested including battery chargers for hand held battery drills.

The tools, machinery and equipment that will be used on site include:-

- Barriers and warning signage
- General hand tools
- Piling machine – GEAX EK110
- Trailer Mounted Concrete Pump Putzmeister BSA 1005D – 54 Cubic metres per hour
- Agitator Make Hymix Model P6000 6m<sup>3</sup>
- Petrol jet wash
- Petrol Auger Grinder

All tools and equipment will be checked by the supervisor to ensure that they are in good working order and safe. Persons operating tools and equipment will be adequately instructed on their safe use and provided with appropriate PPE. Where training may be required the supervisor will arrange for training to take place before any use of equipment commences.

All portable tools will be identifiable by means of unique markings, ie., unique ID number.

The materials to be used are:

- Concrete
- Steel reinforcement cages
- Gasoil

### **Permits and Licences**

The following permits and licences will be held by operatives on site:

- Permit to Pile

### **Waste**

Arisings from the piling operations will be cleared by OP

General waste will be cleared by Main Contractor ready for disposal by an approved waste re-cycling company.

Spilled diesel will be absorbed with sand, loaded into suitable containers and removed from site by OP for disposal at a licensed hazardous waste facility.

## LIFTING PLAN FOR LIFTING OF STEEL CAGES

### 1. PERSONNEL

1.1	<b>PROJECT MANAGER:</b>
1.2	<b>LIFTING MANAGER / APPOINTED PERSON:</b>
1.3	<b>SLINGER / BANKSMAN:</b>
1.4	<b>UP TO 4 GENERAL OPERATIVES:</b>

### 2. EQUIPMENT

2.1	JS 130 14.5 Tonne Excavator
2.2	Lifting chains and quick hitch
2.3	Certified Shackles

### 3. SCHEDULE

<b>DATE</b>	FROM:TBA	TO:
<b>TIME</b>	FROM:8am	TO:6pm

### 4. LOAD SCHEDULE

<b>Description</b>		<b>450mm steel reinforced cage</b>	
Characteristics (eg. bulky)		Tubular cage	
Centre of Gravity (eg. off centre)		Centre	
Weight of load		99.6 kg	
Ancillary Equipment		Quick Hitch and Chains 236 kg	

## LIFTING PLAN FOR LIFTING OF STEEL CAGES

Lifting Accessories (inc. SWL)		Lifting Chains (4.2T) Lifting Chains (6.5T) Red Brow Shackle (8.5T)	
Total Weight (inc. 25% safety factor)		420 kg	
Method of slinging		Sling through steel cage	
Lifting Point Locations		Through steel cage	
Safety Considerations		Check all slinging before lifting	

### 5. METHOD OF WORK

- All non-essential personnel to be excluded from the working area.
- Excavator to be tracked under the direction of a trained Banksman.
- Lifting chains to be run through the top of the steel cage and the lifting shackle to be used to secure the load to the lifting block under the direction of the Slinger / Banksman.
- Two taglines to be attached to the bottom of the cage to be maneuvered by two operatives. Operatives are never to position themselves under the load.
- Lifting operation to be directed by the Slinger / Banksman.
- Under the direction of the Slinger / Banksman, cages to be lowered into the piling concrete and having reached the required depth will be secured with a steel pin.
- Lifting sling then to be removed.

### 6. LIFTING EQUIPMENT OR APPLIANCES TO BE USED:-

- a) Tracked excavator JS130.
- b) Safe working load: 2180 kg fully extended (1650 kg @ 1m above FFL on max. reach)
- c) Excavator check valves installed - YES / ~~NO~~
- d) Safe working load indicator installed - YES / ~~NO~~

**No lifts will be allowed with excavators if the bucket is still attached.  
Test Certificates to be in site file.**

### 7. PROXIMITY HAZARDS

- a) Overhead Power Lines. ~~YES / NO~~
- b) Railways Underground Tunnels ~~YES / NO~~
- c) Other Structures ~~YES / NO~~
- d) Underground Services ~~YES / NO~~
- e) Other Cranage ~~YES / NO~~

## LIFTING PLAN FOR LIFTING OF STEEL CAGES

f) Others - Specify

### 8. ENVIRONMENTAL CONDITIONS

<b>Describe:</b>	Weather forecast to be checked daily any inclement weather conditions.

### 9. GROUND CONDITIONS

Piling Mat

### 10. WHAT DEMARCATION WILL BE USED

- Full height Heras fence panels to demark entire lifting area.
- 'Danger No Entry' signs will be utilized.

### 11. CONTROL OF LOAD

<b>Method of Control</b>	Taglines to control the swing and position, the load will always be kept as close to ground level as practical.
<b>Number of operatives required to control load using taglines</b>	2

### 12. ACCESS / EGRESS

- Access for equipment – the area for lifting operations shall be left clear of personnel and ancillary.
- Equipment in order for the lifting machinery to have as much room to work as possible.
- Access to sling load – Slings shall be done from the ground.

## LIFTING PLAN FOR LIFTING OF STEEL CAGES

13. IS LIFT OPEN OR BLIND

Open Lift, the driver of the Excavator will always be able to see the Load.	1 Signaller
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14. COMMUNICATION METHOD

Hand signals from the Signaller to the driver agreed upon before commencement of the Lift

15. DOCUMENT STATUS

Method Statement Ref. No. STN-UIP 20844.8.1.2 – CVL-MST-OMA-004.

**GUIDANCE NOTES:**

1. No excavator must work on site unless all the appropriate certificates are available on site.
2. All lifts to be undertaken are to be vertical unless authorised in writing by an Engineer.
3. The weight of the load being lifted must be known.
4. Ground conditions must be suitable for the weight of crane and load.
5. The Rated Capacity (SWL) is never exceeded.
6. Check that there is adequate clearance around the slewing circle to prevent persons being trapped by counter weights.
7. When lifting, stop briefly when load is just off the ground and check stability of excavator.
8. Excavator must not be left overnight with telescopic jibs elevated.
9. No load to be left suspended if excavator is unattended.
10. No lifting to be undertaken if operatives, Banksmen or delivery drivers are not wearing safety helmets.

PREPARED BY:

DATE:

CHECKED BY:

DATE:

APPROVED BY:

DATE



## LIFTING PLAN FOR LIFTING OF STEEL CAGES

Hazard description	Consequence	Those at Risk					Initial Rating			Risk Control Measure			Residual Rating		
		Emp	Con	Pub.	Vis.	S	L	R	S	L	R	S	L	R	
Adverse Weather Conditions - Wind (effect on load) Rain (Piling mat damage)	Fatalities / Major injuries	Y	Y	N	N	5	3	15	Lifting operations to be suspended if high winds Piling mat to be inspected after rain Water spray if excessive dust during wind			5	1	5	
Ground conditions - overturning	Fatalities / Major injuries	Y	Y	N	N	5	3	15	Survey carried out Piling mat inspection			5	1	5	
Attaching lifting tackle	Fatalities / Major injuries	Y	Y	N	N	5	3	15	Manual handling training Only trained Slinger Banksman to undertake this duty Grippa gloves			5	1	5	
Inadequate clearance / working area	Fatalities / Major injuries	Y	Y	N	N	5	3	15	All non-essential personnel excluded from the lifting area. Slinger/ Banksman and Lifting Supervisor to oversee operations.			5	1	5	
Others persons working in area	Fatalities / Major injuries	Y	Y	N	N	5	3	15	Slinger / Banksman to ensure non-essential personnel excluded.			5	1	5	
Failure of lifting tackle	Fatalities / Major injuries	Y	Y	N	N	5	3	15	Lifting tackle to be certified. Visual check before use.			5	1	5	
Trapping / crushing by load	Fatalities / Major injuries	Y	Y	N	N	5	3	15	Excavator operator to be competent. Slinger / Banksman to oversee operation.			5	1	5	
Failure of excavator	Fatalities / Major injuries	Y	Y	N	N	5	3	15	Excavator maintained LOLER inspection carried out. Pre-use check.			5	1	5	
Lifting load above head height	Fatalities / Major injuries	Y	Y	N	N	5	3	15	Tag lines to be used. Slinger / Banksman to oversee operation.			5	1	5	



# Geobond

**PILING & FOUNDATION SOLUTIONS**

Fairway House  
Armstrong Way  
Farnborough  
Hampshire  
GU14 0LP

P: 0870 801 0080  
F: 0870 801 0090  
E: engineers@geobond.co.uk  
W: www.geobond.co.uk

COSHH ASSESSMENT			
		<b>Ready Mix Concrete</b>	<b>Assessment No.</b> <b>BUI-60</b>
			Issue Date 30/09/2014
			Revision Number 0
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**Approved Use:** Mixed with sand/aggregates to produce concrete or mortar.

Risk of serious damage to eyes.  
May cause irritation to skin, dermatitis and burns when exposed to wet material.  
Dry material (powder may cause skin and respiratory irritation dermatitis and burns)  
Note that chemical burns may occur without the sensation of pain at the time of contact  
An allergic reaction to the Chromium content may occur.  
The material is heavy, and those involved in handling are to have received manual handling training.

**Persons Affected:** The user and those in proximity to disturbed dust.

**Routes of Entry:** Skin, eyes, inhalation, ingestion.

**Control Measures**

**Handling:** The observance of basic hygiene principles will contribute to the safe use of this material.

**Training:** No specific training required, but operatives unfamiliar with the use of this material to be briefed prior to use.  
Manual Handling training to be given to those handling the material.

**Information:** A copy of this assessment to be held in all SPC files (#2)  
Material Safety Data Sheet to be held in the QHSE file.  
Personnel unfamiliar with the use of this material to be briefed.

**PPE**

**Eye Protection** Safety glasses to EN166B to be worn whilst handling dry powder and mixing material. Also, if danger of splashing, to be worn whilst laying material.

**Gloves** PVC or rubber gloves to be worn to EN420.

**Respiration** Face masks to be worn when handling dry powder and mixing material.  
Minimum standard EN149 FFFP2.

**Overalls** Overalls EN 13034 to be worn at all times.

**Safety Footwear** Safety footwear EN345 to be worn at all times.

**Other** Waterproof trousers and/or Wellingtons will be required in circumstances where the user is laying deep concrete.

<b>Other</b>		Waterproof trousers and/or Wellingtons will be required in circumstances where the user is laying deep concrete.	
<b>Symptoms and First Aid Measures</b>			
<b>FIRST AID</b>	<b>Eye Contact:</b>	<b>SYMPTOMS</b>	Soreness, burning, ulceration.
		<b>ACTION</b>	Wash eyes with clean water for 15 minutes, seek medical attention.
	<b>Inhalation:</b>	<b>SYMPTOMS</b>	Inflammation of mucous membranes.
		<b>ACTION</b>	Move to fresh air. If nose or airways become inflamed, seek medical attention.
	<b>Skin Contact:</b>	<b>SYMPTOMS</b>	Irritation, redness, burns, allergic dermatitis.
		<b>ACTION</b>	Remove contaminated clothing. Wash affected area with soap and water. If irritation or other symptoms occur, seek medical attention.
	<b>Ingestion:</b>	<b>SYMPTOMS</b>	Irritation to the gastro intestinal tract.
		<b>ACTION</b>	Do not induce vomiting. Wash mouth with water and give affected person plenty of water to drink.
<b>Other Information</b>			
<b>Treatment of Spillage:</b>		PPE as above to be worn. In dry state, minimise the disturbance of dust. The addition of water will prevent dust, but the material must be removed before setting. Place in bags for disposal by a waste contractor licensed to dispose of builders waste.	
<b>Storage Requirements:</b>		Keep in cool dry area, with bags safely stacked.	
<b>Transport:</b>		No classification.	
<b>Disposal Arrangements:</b>		Dispose of material and empty bags as builders waste.	
<b>Fire Action:</b>		Not flammable.	
<b>Further Information:</b>		Hawk International Distributors – 01206 304010.	








# Geobond

PILING & FOUNDATION SOLUTIONS

Fairway House  
Armstrong Way  
Farnborough  
Hampshire  
GU14 0LP

P: 0870 801 0080  
F: 0870 801 0090  
E: engineers@geobond.co.uk  
W: www.geobond.co.uk

COSHH ASSESSMENT									
		<table border="1"> <tr> <td rowspan="3"> <b>Diesel/Derv</b> </td> <td>Assessment No.</td> <td>Issue Date 28/02/2014</td> </tr> <tr> <td><b>FEU-02</b></td> <td>Revision Number 0</td> </tr> <tr> <td></td> <td>Page 1 of 2</td> </tr> </table>	<b>Diesel/Derv</b>	Assessment No.	Issue Date 28/02/2014	<b>FEU-02</b>	Revision Number 0		Page 1 of 2
<b>Diesel/Derv</b>	Assessment No.	Issue Date 28/02/2014							
	<b>FEU-02</b>	Revision Number 0							
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<b>Approved User:</b>	Fuel for vehicles and generators.								
<b>Hazardous Constituents and/or Properties:</b>									
	<p>Slight irritant to eyes, irritant to skin.  Prolonged and repeated exposure may cause dermatitis and a risk of skin cancer.  Aspiration of liquid into lungs can cause severe lung damage and death.  Vapours, mists and fumes produced at high temperatures may be irritating to eyes, nose, throat and lungs and may cause dizziness, headaches or have an anaesthetising effect. Avoid breathing vapours, mists or fumes.  Dangerous to the environment and toxic to most invertebrates and aquatic organisms.</p>								
<b>Persons Affected:</b>	The user and those in close proximity.								
<b>Routes of Entry:</b>	Skin, eyes, inhalation, ingestion.								
<b>Control Measures</b>									
<b>Engineering:</b>									
<b>Handling:</b>	The observance of basic hygiene principles will contribute to the safe use of this material. Do not smoke, eat or drink whilst handling this material.								
<b>Training:</b>	No specific training required, but operatives unfamiliar with the use of this material to be briefed prior to use.								
<b>Information:</b>	A copy of this assessment to be held in all SFC files (#2) Material Safety Data Sheet to be held in the QHSB file.								
<b>Other:</b>									
<b>PPE</b>									
<b>Eye Protection</b>		Not required for the intended use (Fuel for generators/vehicles).							
<b>Gloves</b>		Not required for the intended use (Fuel for generators/vehicles).							
<b>Respiration</b>		Not required for the intended use (Fuel for generators/vehicles).							
<b>Skin Protection</b>		Overalls to be worn at if using this product on a prolonged basis.							
<b>Safety Footwear</b>		Safety footwear to be worn at all times.							
<b>Other</b>									

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<b>Symptoms and First Aid Measures</b>			
<b>FIRST AID</b>	<b>Eye Contact:</b>	<b>SYMPTOMS</b>	Irritating.
		<b>ACTION</b>	Rinse immediately with plenty of water. If irritation persists, seek medical attention.
	<b>Inhalation:</b>	<b>SYMPTOMS</b>	Nausea, headaches, dizziness.
		<b>ACTION</b>	Remove affected person from exposure. Give artificial respiration if breathing stopped. Seek immediate medical attention.
	<b>Skin Contact:</b>	<b>SYMPTOMS</b>	Irritation, with prolonged contact Defatting, oil scab, dermatitis may occur.
		<b>ACTION</b>	Flush with large amounts of water and soap if available. Remove contaminated clothing. If irritation persists, seek medical attention.
	<b>Ingestion:</b>	<b>SYMPTOMS</b>	Nausea & Diarrhoea. Large effects may affect the central nervous system.
		<b>ACTION</b>	<b>DO NOT INDUCE VOMITING.</b> Keep at rest. Obtain immediate medical attention.
<b>Other Information</b>			
<b>OES</b>	8 Hr TWA - 5mg/m <sup>3</sup>		
<b>Treatment of Spillage:</b>	Eliminate any sources of ignition. Additional PPE to be worn (Safety goggles EN166, Chemically impervious gloves (EN374) Shut off source of spill. Prevent from entering drains or water courses. Contain spill with inert absorbent material - sand, earth and remove to labelled containers for disposal by a waste contractor approved for the disposal of hazardous waste.		
<b>Storage Requirements:</b>	Store in cool well-ventilated area away from sources of ignition. Use only approved containers for storage ensuring they are closed or properly vented. Check for leaks from containers.		
<b>Transport:</b>	Transport only in approved containers.		
<b>Disposal Arrangements:</b>	To be disposed of by a waste contractor authorised for the disposal of hazardous waste.		
<b>Fire Action:</b>	Do not attempt to tackle fire. Only personnel trained in fire fighting to tackle fires. If safe, cut off source of fuel. Clear the area of personnel.		
<b>Further Information:</b>	Conoco Phillips Ltd. 01469 572198.		





**Geobond**  
 PILING & FOUNDATION SOLUTIONS

Fairway House  
 Armstrong Way  
 Farnborough  
 Hampshire  
 GU14 0LP


P: 0870 801 0080  
 F: 0870 801 0090  
 E: engineers@geobond.co.uk  
 W: www.geobond.co.uk

**COSSH ASSESSMENT**

 	<b>Portland Cement</b>	<b>Assessment No.</b> <b>BUI-01</b>	Issue Date 30/09/2014
			Revision Number 0
			Page 1 of 2

(Blue Circle and Mastercrete Ordinary Portland cement, limestone cement, masonry cement, extra rapid cement, Ferrocrete rapid hardening Portland cement, sulphacrete sulfate-resisting Portland cement, Snowcrete, Phoenix and Microchem Portland cements.)

**Approved Use:** Mixed with sand/aggregates to produce concrete or mortar.

 Risk of serious damage to eyes.  
 May cause irritation to skin, dermatitis and burns when exposed to wet material.  
 Dry material (powder may cause skin and respiratory irritation dermatitis and burns)  
 Note that chemical burns may occur without the sensation of pain at the time of contact  
 An allergic reaction to the Chromium content may occur.  
 The material is heavy, and those involved in handling are to have received manual handling training.

**Persons Affected:** The user and those in proximity to disturbed dust.

**Routes of Entry:** Skin, eyes, inhalation, ingestion.






**Control Measures**

**Handling:** The observance of basic hygiene principles will contribute to the safe use of this material.

**Training:** No specific training required, but operatives unfamiliar with the use of this material to be briefed prior to use.  
 Manual Handling training to be given to those handling the material.

**Information:** A copy of this assessment to be held in all SPC files (#2)  
 Material Safety Data Sheet to be held in the QHSE file.  
 Personnel unfamiliar with the use of this material to be briefed.

**PPE**

<b>Eye Protection</b>		Safety glasses to EN166B to be worn whilst handling dry powder and mixing material. Also, if danger of splashing, to be worn whilst laying material.
<b>Gloves</b>		PVC or rubber gloves to be worn to EN420.
<b>Respiration</b>		Face masks to be worn when handling dry powder and mixing material. Minimum standard EN149 FFFP2.
<b>Overalls</b>		Overalls EN 13034 to be worn at all times.
<b>Safety Footwear</b>		Safety footwear EN345 to be worn at all times.

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Symptoms and First Aid Measures			
<b>FIRST AID</b>	<b>Eye Contact:</b>	<b>SYMPTOMS</b>	Soreness, burning, ulceration.
		<b>ACTION</b>	Wash eyes with clean water for 15 minutes, seek medical attention.
	<b>Inhalation:</b>	<b>SYMPTOMS</b>	Inflammation of mucous membranes.
		<b>ACTION</b>	Move to fresh air. If nose or airways become inflamed, seek medical attention.
	<b>Skin Contact:</b>	<b>SYMPTOMS</b>	Irritation, redness, burns, allergic dermatitis.
		<b>ACTION</b>	Remove contaminated clothing. Wash affected area with soap and water. If irritation or other symptoms occur, seek medical attention.
	<b>Ingestion:</b>	<b>SYMPTOMS</b>	Irritation to the gastro intestinal tract.
		<b>ACTION</b>	Do not induce vomiting. Wash mouth with water and give affected person plenty of water to drink.
<b>Other Information</b>			
<b>Treatment of Spillage:</b>	PPE as above to be worn. In dry state, minimise the disturbance of dust. The addition of water will prevent dust, but the material must be removed before setting. Place in bags for disposal by a waste contractor licensed to dispose of builders waste.		
<b>Storage Requirements:</b>	Keep in cool dry area, with bags safely stacked.		
<b>Transport:</b>	No classification.		
<b>Disposal Arrangements:</b>	Dispose of material and empty bags as builders waste.		
<b>Fire Action:</b>	Not flammable.		
<b>Further Information:</b>	Hawk International Distributors – 01206 304010.		



# Geobond

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Fairway House  
Armstrong Way  
Farnborough  
Hampshire  
GU14 0LP


P: 0870 801 0080  
F: 0870 801 0090  
E: [engineers@geobond.co.uk](mailto:engineers@geobond.co.uk)  
W: [www.geobond.co.uk](http://www.geobond.co.uk)

## COSHH ASSESSMENT

 	Dust	Assessment No. BUI-26	Issue Date 06/12/2013
			Revision Number 0
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**Approved Use:** N/A.

### Hazardous Constituents and/or Properties:

 Dust may be a hazard as a result of disturbance of settled dust in areas used infrequently, or as a result of drilling or cutting. In particular, drilling or cutting of concrete products can release silica which is a hazardous substance. Lying dust may contain unknown hazardous materials. In all cases, excessive dust is to be regarded as hazardous and the control measures, first aid measures and PPE requirements remain the same.

**Persons Affected:** The user, others in proximity of the activity.

**Routes of Entry:** Inhalation, possible to ingest, Infusion (cuts, abrasions, eyes).

### Control Measures






**Engineering:** Mechanical ventilation may be required where levels are excessive (For example, vacuum-assisted power tools).  
Damping down may be required where levels are excessive.

**Handling:** The observance of basic hygiene principles will contribute to the welfare of the operatives exposed.

**Training:** No specific training required, but toolbox talks on the possible adverse effects of dust to be given periodically.

**Information:** A copy of this assessment to be held in all SPC files (#2).

### PPE

<b>Eye Protection</b>		Safety Glasses or Goggles. EN 166B
<b>Gloves</b>		Gloves to be worn. EN388
<b>Respiration</b>		The use of dust masks EN 149 is required where levels are excessive.
<b>Overalls</b>		Overalls to be worn at all times.
<b>Safety Footwear</b>		Safety footwear EN345 to be worn at all times.



**Symptoms and First Aid Measures**

<b>FIRST AID</b>	<b>Eye Contact:</b>	<b>SYMPTOMS</b>	May cause irritation.
		<b>ACTION</b>	Have a plentiful supply of water available.
	<b>Inhalation:</b>	<b>SYMPTOMS</b>	May cause irritation.
		<b>ACTION</b>	If irritation occurs, move away from source.
<b>Skin Contact:</b>	<b>SYMPTOMS</b>	May cause irritation.	
	<b>ACTION</b>	Wash the affected area thoroughly with plenty of clean water.	
<b>Ingestion:</b>	<b>SYMPTOMS</b>	May cause irritation to the respiratory tract.	
	<b>ACTION</b>	Do not induce vomiting. Wash out mouth and drink plenty of water.	
<b>Other Information</b>			
<b>Treatment of Spillage:</b>		Not applicable.	
<b>Storage Requirements:</b>		Not applicable.	
<b>Transport:</b>		Not applicable.	
<b>Disposal Arrangements:</b>		Not applicable.	
<b>Fire Action:</b>		Not applicable.	
<b>Further Information:</b>			