

PERMIT 025



**POLLUTION PREVENTION AND CONTROL ACT 1999
 POLLUTION PREVENTION AND CONTROL (ENGLAND AND WALES)
 REGULATIONS 2000
 PERMIT OF PROCESS**

THIS IS TO CERTIFY THAT the process of blending of cement based renders

at: **PERMAROCK PRODUCTS LTD, JUBILEE DRIVE
LOUGHBOROUGH LE11 5TW**

National Grid Ref: SK 531 201

has been duly permitted in accordance with Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 subject to the conditions outlined in this document.

Name of Operator: Eaga Plc
Registered Office Partnership House, City West Business Park, Scotswood Road, Newcastle, NE4 7DF

This Permit shall apply only to the premises occupied by the applicant, as specified and described in the Application for Permit submitted to the Borough of Charnwood. This Permit, consisting of 14 pages, shall be subject to replacement, variation or amendment, as may be considered appropriate by the Borough of Charnwood at any time, according to provisions of Regulations 12, 15, and 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000

The conditions contained herein shall apply from the date of the Permit unless otherwise stated.

- Refer to Variation Notice dated 21 April 1999
- Refer to Variation Notice dated 22 October 2003
- Refer to Variation Notice dated 07 April 2006
- Refer to Variation Notice dated 27 July 2007
- Refer to Variation Notice dated 26 February 2008

Signed on behalf of Charnwood Borough Council

Dated 26 February 2008

Beverley Green, Specialist Environmental Health Officer
(the delegated officer for the purpose)

Counter-signed.....
Directorate of Housing and Health, Environmental Protection Southfields, Southfields Road, Loughborough, LE11 3TX

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Introductory note***This introductory note does not form a part of the permit***

The following Permit is issued under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No 1973), as amended, (“the PPC Regulations”) to operate an installation carrying out one or more of the activities listed in Part B to Schedule I of the PPC Regulations, to the extent authorised by the Permit:

Section 3.1, Part B

"Any activity of blending cement in bulk or using cement in bulk other than at a construction site, including the bagging of cement and cement mixtures, the batching of ready-mixed concrete and the manufacture of concrete blocks and other cement products”.

The Permit includes conditions that have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by conditions of the Permit are subject to the condition implied by Regulation 12(10) of the PPC Regulations, i.e. the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation. Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

Note that the Permit requires the submission of certain information to the Local Authority (LA). In addition, the LA has the power to seek further information at any time under regulation 28 to the PPC Regulations provided that it acts reasonably.

Public Registers

Considerable information relating to Permits including the Application is available on public registers in accordance with the requirements of the PPC Regulations. Certain information may be withheld from public registers where it is commercially confidential or contrary to national security.

Variations to the Permit

This Permit may be varied in the future (by the LA serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, it must submit a formal Application. The Status Log within the Introductory Note will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

PERMIT 025Surrender of the Permit

Where the Operator intends to cease the operation of an installation (in whole or in part) The LA should be informed in writing, such notification must include the information specified in regulation 20(3) of the PPC regulations.

Transfer of the Permit or part of the Permit

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made jointly by the existing and proposed holders. A transfer will be allowed unless the LA considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit.

Talking to us

Please quote the Permit Number if you contact Charnwood Borough Council about this Permit. To give a Notification under Condition 10 the Operator should use the telephone number 01509 634636 or any other number notified in writing to the Operator by Charnwood Borough Council for that purpose.

Status Log

Detail	Date	Comment
Deemed Application	30 April 1992	Duly made
Permit issued	19 April 1993	EPA permit issued
Permit variations issued	21 April 1999 22 October 2003 7 April 2006 27 April 2007 26 February 2008	Permit transferred to PPC Regulations Consolidated permit issued Consolidated permit issued Consolidated permit issued

Process Description

The purpose of the process is the batch blending of cement based renders. The mixing is accomplished within two separate areas the warehouse building and the main building production area, marked in blue on site plan in Appendix I/025.

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The process in the warehouse involves blending and use of cement in 5 tonne batches. The mixing takes place in a drum blender. The process in the main building involves blending and use of cement in 1 tonne batches and mixing takes place in a ribbon blade blender.

Plant Detail

The process in the main building utilises: -

1. 3 loading hoppers
2. 3 ribbon blade blenders
3. 1 UMA 452 G12 filter and fan unit, serial No.613132 incorporating a fabric filter.

Raw materials are stored in 25kg or 50kg bags palletised or in 200 litres wide top drums.

The process in the warehouse utilises: -

1. One sack tip station
2. One FIBC discharge station
3. Two AMC conveyors
4. One 5 ton drum blender
5. Two 2.5 ton hoppers
6. Two 25kg sack fillers
7. One FIBC filling station
8. One screw feed unit
9. One UMA 452 G12 filter and fan unit No 613133 incorporating a fabric filter.

Raw materials are stored in one tonne FIBC big bags and 25kg sacks

Plant Operation**Main Building Plant Operation**

Materials required for processing are taken from the warehouse into the main building production weighing area and one tonne batches are weighed out still bagged, and transferred to the manufacturing mezzanine. Each batch is loaded via the loading hopper into one of the 3 ribbon blade blenders.

Mixing is undertaken for 30 minutes and the blended product is then discharged and weighed into 25kg heavy-duty polythene bags which are heat-sealed and palletised. The ribbon blade blenders are connected to the extract unit.

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Warehouse Plant Operation

Raw materials are stored in the warehouse prior to use. Materials required for processing are taken from the warehouse into the production area in five tonne lots; these lots consist of FIBC big bags and 25kg sacks depending on the recipe

FIBC big bags are loaded into the blender via the FIBC discharge station, material is then conveyed to the blender by the AMC conveyor. The FIBC discharge station is connected to the extraction unit, the conveyor is a sealed unit with the exception of a filter sock over an air vent to allow air to expel.

25kg sacks are loaded into the blender via the sack tip station, material is then conveyed to the blender by the AMC conveyor. The sack tip station is connected to the extraction unit; the conveyor is a sealed unit with the exception of a filter sock over an air vent to allow air to expel.

The blender is connected to the extraction unit at the input spout to collect any expelled air.

Mixing is undertaken for 10 minutes and the blended product is discharged into two 2.5 tonne hoppers via the screw feed unit and AMC conveyor. The AMC conveyor, screw feed unit and hoppers are sealed units with the exception of filter socks over air vents at the bottom of the AMC and the top of the hoppers to allow air to expel.

Blended product is then discharged into 25kg valve sacks via the sack fillers and palletised; both sack fillers are connected to the extraction unit

Blended product can also be discharged in to FIBC big bags via the FIBC filling station connected to hopper two; this equipment is connected to the extraction

Principle Emissions

The key emissions that constitute pollution are particulate matter (cement dust, aggregate dust) arising from the use of the following raw materials:

- 1) Coarse and fine aggregate.
- 2) Cement (OPC)

End of Introductory Note

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The above named company is permitted to operate a cement blending and bagging activity subject to compliance with the following conditions:

Permit Conditions**Emission Limits, monitoring and other provisions**

1. The following emission limits shall be complied with:

Row	Particulate matter	Emission Limit	Type of monitoring	Monitoring frequency
1	Whole process	No visible emission across the site boundary	Operator observations. To be recorded in a log book under condition 2 below.	At least daily

Monitoring, investigations and recording

2. All inspections and assessments shall be recorded in a log book on a daily basis. Details of visual assessments shall include the following information when a visible emission to atmosphere is apparent: -
- i) Date and time of observation
 - ii) Wind direction
 - iii) Weather conditions
 - iv) Position of observation
 - v) Assessment
 - vi) Identification of observed plant

Where the assessment is that there are no visible emissions, items ii), iii) and iv) need not be recorded.

3. The log book must be retained by the operator for a minimum of two (2) years and made available for examination by an authorised officer of Charnwood Borough Council. Any historical records kept off-site shall be made available for inspection within one working day on request from an officer of Charnwood Borough Council.

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Visible emissions

4. All emissions to air, other than steam or water vapour, shall be free from persistent visible emissions.
5. All emissions to air shall be free from droplets.
6. Regular visual assessments of emissions of cement and cementitious powders to the external atmosphere shall be made on a random basis, at least daily, by the operator. The visual assessment shall be made having regard to the piece(s) of plant or equipment in operation at the time. The time, location and result of the assessments shall be recorded in a log book required by condition 2.
7. Where in the opinion of an officer from Charnwood Borough Council there is evidence of airborne dust from the process off site, an inspection and assessment shall be undertaken by the operator to identify the source and once the source is known, corrective action shall be taken without delay.

Abnormal events

8. A list of key arrestment plant and a written procedure for dealing with its failure shall be provided to Charnwood Borough Council.
9. When any visible escape of dust to the external atmosphere is observed or when any abnormal emissions, malfunction or breakdown likely to lead to an escape of dust is found, the operator shall:-
 - a) Investigate and undertake remedial action **immediately**
 - b) Adjust the process or activity to minimise the emissions until normal operations can be restored
 - c) Promptly record the events and actions taken in the log required by condition 2 and
 - d) If corrective action is not immediately effective then action to mitigate any effects shall be taken.
10. For all malfunctions or any breakdown leading to abnormal emissions likely to have an effect on the local community or in the event of the failure of key arrestment plant, Charnwood Borough Council shall be informed without delay.

Inspection of filtration plant

11. The mechanical shaker and dust arrestment plant shall be inspected for correct operation once per week. When defects are detected, corrective action shall be

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initiated immediately. The inspection shall be recorded in the log book in accordance with condition 2.

12. All fabric filters shall be fitted with pressure drop indicators.
13. Details of all checks and inspections shall be recorded in the log book (required under condition 2) on the day of inspection. These details shall include for each system: -
 - a. Date and time of the inspection
 - b. Description of work undertaken
 - c. Name of operative carrying out maintenance work.

Control Techniques

14. All cement and cementitious material required to be held on site shall be stored in 25kg or 50kg bags or in 200 litre wide top drums or FIBCs.
15. The ribbon blade mixers shall be loaded in such a way as to prevent or minimise dust emissions. Hopper covers shall therefore be in place whenever the mixers are in operation or are loaded with cement and cementitious material.
16. All materials shall be stored, wrapped or otherwise enclosed to minimise dust emissions.
17. During transport and loading of dusting materials free-fall of loose materials shall be minimised at all times.
18. The packing of cement products into bags in the warehouse production area shall be carried out using purpose designed plant fitted with extraction for displaced air ducted to the UMA 452 G12 filter unit.

Storage

19. Storage areas where there is regular movement of vehicles shall be hard-surfaced and kept in good repair to prevent or minimise dust emissions.

Conveying

20. The transfer of cement from the blender to the 2.5 tonne hoppers shall be by a fully enclosed mechanical screw feed conveyor

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21. The main feed conveyors for aggregates into the mixing plant shall be: -
 - a) Of sufficient capacity to handle maximum loads,
 - b) All transfer points shall be enclosed,
22. Planned preventative maintenance schedules shall include conveyor systems.

Fugitive Emissions

23. A high standard of housekeeping shall be maintained.
24. All spillages of finely divided materials shall be cleared by means of vacuum cleaning.
25. Major spillages shall be dealt with on the same day using, for example, wet handling methods or a vacuum cleaning system. Measures to minimise emissions such as dampening the surface to create a crust shall be taken immediately.
26. All process buildings shall be cleaned regularly, according to a written maintenance programme, to minimise fugitive emissions.
27. The skip used for storing waste materials liable to cause dust, prior to disposal, shall be enclosed or tightly lidded to prevent or minimise wind entrainment of dust.
28. All accumulations of dust shall be cleared as soon as possible. Particular attention shall be paid to deposits on supporting structures and roofs, in order to minimise wind entrainment of any deposited dust.
29. Dusty waste shall be stored in closed containers.

Management

30. Essential spares and consumables shall be held on site or shall be available at short notice from guaranteed local suppliers for all plant and the equipment concerned with the control of emissions to the air.

Training

31. Training of staff with responsibility for operating the process shall include;

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- Awareness of their responsibilities under the permit, in particular how to deal with conditions likely to give rise to dust emissions, such as the event of spillage
 - Minimising emissions on start-up and shut-down,
 - Action to minimise emissions during abnormal conditions.
32. The operator shall maintain a statement of training requirements for each operational post and keep a record of the training received by each person whose actions may have an impact on the environment. These documents shall be made available to an authorised officer of Charnwood Borough Council on request.

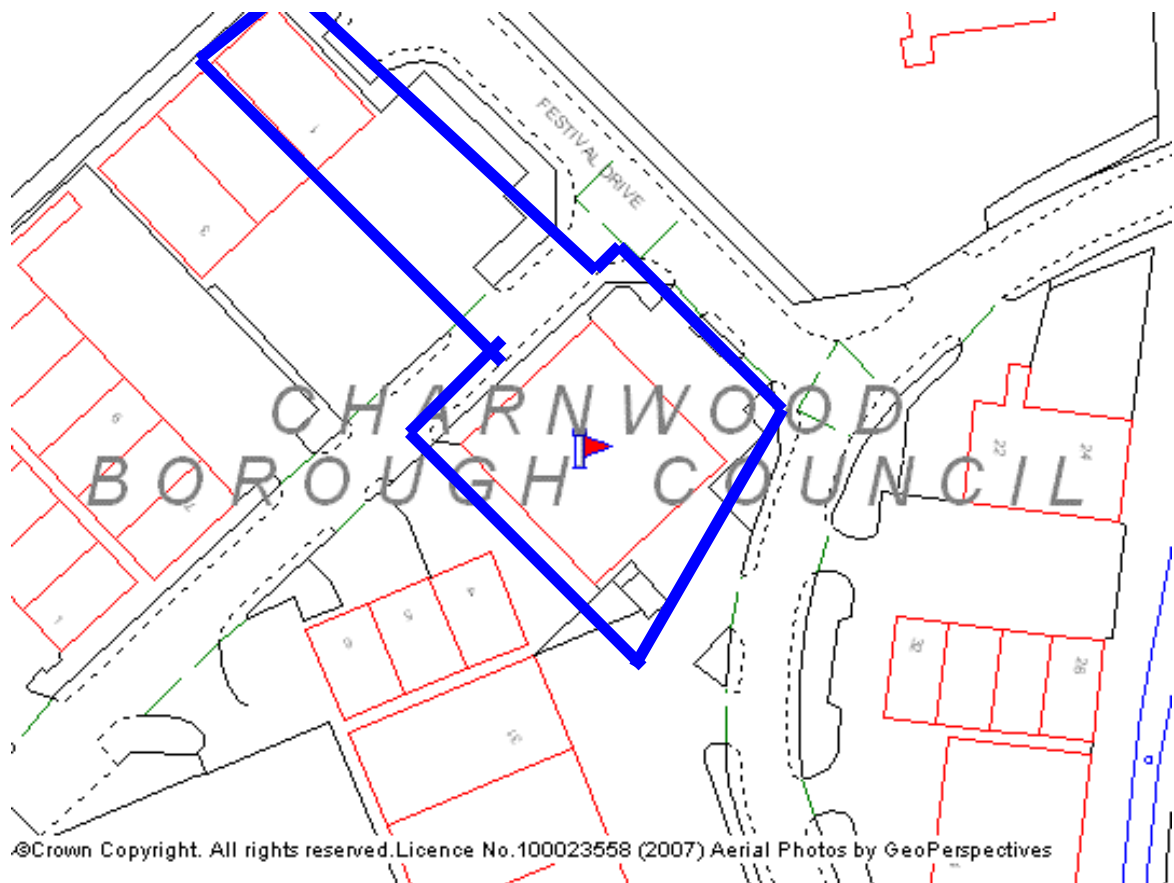
Maintenance

33. Effective preventative maintenance shall be employed on all aspects of the process including all plant, buildings and the equipment concerned with the control of emissions to air. A written maintenance programme shall be devised to cover pollution control equipment and made available to officers from Charnwood Borough Council on request.

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Site Location Plan

Appendix I/025



EXPLANATORY NOTES

These notes do not comprise part of Permit Serial No.025 but contain guidance relevant to the Permit.

1. You should note that Regulation 12(10) of the Regulations provides that in relation to any aspect of the process not regulated by conditions 1 to 33 the best available techniques ('BAT') shall be used for the purpose of preventing or, where that is not practicable, reducing emissions into the air.

Section 3(7) of the Regulations describes 'BAT' as meaning the most effective and advanced stage in the development of activities and their methods of operation which indicates the practical suitability of particular techniques for providing in principle the basis for emission limit values designed to prevent and, where that is not practicable, generally to reduce emissions and the impact on the environment as a whole.

2. This Permit is issued under the Pollution Prevention and Control (England and Wales) Regulations 2000. The responsibility you have under legislation for Health, Safety and Welfare in the workplace remains in force. In addition, the Permit does not relieve you of your obligations to obtain planning permission, hazardous substances consent, discharge consent from the Environment Agency Building Regulations approval, or a Waste Disposal Licence.
3. Any proposed 'change in operation' in the process (within the meaning of Regulation 2(1)) shall be notified to Charnwood Borough Council as required by Section 16(1) of the Regulations.
4. Anyone who is aggrieved by the conditions attached to a Permit can appeal to the Secretary of State for the Environment, Food and Rural Affairs. Appeals must be made in accordance with the requirements of Regulation 27 and Schedule 8 of the PPC regulations. The address is as follows:

The Planning Inspectorate
Environmental Appeals Administration
Room 4/19 Eagle Wing
Temple Quay House, 2 The Square,
Temple Quay, Bristol, SI 6PN

Please note: an appeal brought under paragraph (1) (c) or (d) in relation to the conditions in a permit will not suspend the effect of the conditions appealed against: the conditions must still be complied with.

In determining an appeal against one or more conditions, the Act allows the Secretary of State in addition to quash any of the other conditions not subject to the appeal and to direct the local authority either to vary any of these other conditions or to add new conditions.
