



**POLLUTION PREVENTION AND CONTROL ACT 1999
ENVIRONMENTAL PERMITTING (ENGLAND AND WALES) REGULATIONS 2016
as amended**

Permit Number: 6.4/048260/LR3

**Installation Address:
Specialist Protective Coatings Limited
Thorncliffe Park Estate
Sheffield
S35 2PH**

In accordance with Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016, as amended, Specialist Protective Coatings Limited is hereby permitted to operate a Coating Activity as described in Schedule 1, Part 2, Chapter 6, Section 6.4, Part B, subsection (a)(iv) and subject to the following Permit.

Signed

Dated this day: 21.04.2022

**Dominic Stokes
Commercial Team Manager
Authorised by Sheffield City Council to sign on their behalf**

The Secretary of States Guidance PG 6/23(11) Coating of Metal and Plastic Processes (revised June 2014) has provided the framework for the conditions in this permit.

Name & Address of Operator:

Specialist Protective Coatings Limited
Thornccliffe Park Estate
Chapelton
Sheffield
S35 2PH

Contacts:

Paul Whiting, Paint Manager
Email: pwhiting@billington-structures.co.uk
Telephone: 07790 368691

Karen Moore, Quality and Environmental Advisor.
Email: kmoore@billington-holdings.plc.uk,
Telephone: 07824 409423

Registered Office:

Specialist Protective Coatings Limited
Steel House
Barnsley Road
Wombwell
Barnsley
South Yorkshire
S73 8DS

Company Number: 13811390

Address of Permitted Installation:

Specialist Protective Coatings Limited
Thornccliffe Park Estate
Chapelton
Sheffield
S35 2PH

Talking to Us

Any communication with Sheffield City Council should be made to the following address quoting the Permit number.

Environmental Protection Service

Sheffield City Council

5th Floor (North)

Howden House

1 Union Street

Sheffield

S1 2SH

Telephone: (0114) 273 4651

Email: ippc@sheffield.gov.uk

Contents

Explanatory note	5
Definitions.....	8
Description of Activities	9
Section 1: Upgrading	10
Section 2: Plant and Equipment	10
Section 3: Emission Limits and Controls.....	10
Section 4: Monitoring, Sampling and Measurement of Emissions	11
Section 5: Materials Handling	12
Section 6: Designated Hazard Statement Materials and Substitution Plan	13
Section 7: Solvent Management Plan.....	13
Section 8: Solvent Reduction Scheme	14
Section 9: General Operations	14
Schedule 1: Site Location Plan	17
Schedule 2: Site Layout.....	19
Schedule 3: Solvent Inputs and Outputs	20

Explanatory Note to Pollution Prevention and Control Permit for Part B Installations

The following Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016, as amended (Statutory Instrument 1154), (“the EP Regulations”) to operate an installation carrying out activities covered by the description in Schedule 1, Part 2, Chapter 6, Section 6.4, Part B, subsection (a)(iv) of those Regulations, to the extent authorised by the Permit:

Chapter 6, Other activities, Section 6.4, Coating activities, printing and textile treatments, Part B

(a) Any process (other than for the re-painting or re-spraying of, or of parts of, aircraft or road or railway vehicles) for applying to a substrate, or drying or curing after such application, printing ink or paint or any other coating material as, or in the course of, a manufacturing activity, where the process may result in the release into the air of particulate matter or of any volatile organic compound and is likely to involve the use in any 12-month period of

(iv) 5 or more tonnes of organic solvents in respect of any activity not mentioned in sub-paragraph (iii)

Process Changes

As part of your permit you are required to notify the Council of any proposed change in operation at least 14 days before making the change. This must be in writing and must contain a full description of the proposed change in operation and the likely consequences. Failure to do so is an offence.

If you consider that a proposed change could result in the breach of the existing permit conditions or is likely to require the variation of permit conditions then you may apply in writing under Regulation 20(1) of the EP Regulations. Additionally, if this involves a SUBSTANTIAL CHANGE to the installation you will be required to submit an application, pay the relevant fee and advertise the application accordingly. You may serve a Notice on the Council requesting that they determine whether any change that is proposed would constitute a substantial change before you proceed with application.

Variations to the Permit

The Permit may be varied in the future (by the Council serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, a formal Application must be submitted.

Surrender of the Permit

Where the operator of a Part B installation or mobile plant ceases or intends to cease the operation of the activity the operator may notify the regulator of the surrender of the whole permit, in any other case, notify the regulator of the surrender of the permit in so far as it authorises the operation of the installation or mobile plant which he/she has ceased or intends to cease operating. The notification shall contain information as described in Regulation 24 or 25 of the EP Regulations.

Transfer of the Permit or Part of the Permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 21 of the EP Regulations. A transfer will be allowed unless Sheffield City Council considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit.

Annual Subsistence Fee

In accordance with Regulation 66 of the EP Regulations, the holder of a permit is required to pay a fee for the subsistence of the Permit. This fee is payable annually on 1st April. You are advised that under the provisions of Regulation 66 (5) of the EP Regulations, if you fail to pay the fee due promptly, Sheffield City Council may revoke the Permit. You will be contacted separately each year in respect to this payment.

Public Register

The Council is required by Regulation 46 of the EP Regulations to maintain a Public Register containing information on all LAPPC installations and mobile plant. The register is available for inspection by the public free of charge during office hours (Monday to Friday 9.00 am to 5.00 pm) at the following address:

Environmental Protection Service

Sheffield City Council
5th Floor (North)
Howden House
1 Union Street
Sheffield
S1 2SH
Telephone: (0114) 273 4651
Email: jppc@sheffield.gov.uk

Confidentiality

Sheffield City Council has a duty to consider the question of confidentiality of information supplied to it. If any information supplied is considered confidential, a statement of which information this applies to and the reasons why it is considered confidential should be specified. The Operator is reminded that he may apply to Sheffield City Council for the exclusion of information from the public register under the provisions of the Environmental Permitting (England and Wales) Regulations 2016, as amended.

Appeals

Under Regulation 31 of the EP Regulations operators have the right of appeal against the conditions attached to their permit. Schedule 6 of the EP Regulations sets out the detailed procedures.

Appeals against a Variation Notice do not have the effect of suspending the operation of the Notice. Appeals do not have the effect of suspending Permit conditions.

Notice of appeal against the conditions attached to the permit must be given within six months of the date of the Notice, which is the subject matter of the appeal.

How to Appeal

There are no forms or charges for appealing. However, for an appeal to be valid, appellants (the person/operator making the appeal) are legally required to provide:

- Written notice of the Appeal;
- A statement of the grounds of Appeal;
- A statement indicating whether the appellant wishes the appeal to be dealt with by written representations procedure or a hearing - a hearing must be held if either the appellant or enforcing authority requests this, or if the Planning Inspector or the Secretary of State decides to hold one.
- (Appellants must copy the above three items to the local authority when the appeal is made)
- A copy of any relevant Application;
- A copy of any relevant Permit;
- A copy of any relevant correspondence between the appellant and the regulator; and
- A copy of any decision or notice, which is the subject matter of the appeal.

Where to Send Your Appeal Documents

Appeals should be addressed to:

**The Planning Inspectorate
Environmental Appeals Administration
Room 4/19 - Eagle Wing
Temple Quay House
2 The Square
Temple Quay
Bristol BS1 6PN**

In the course of an Appeal process, the main parties will be informed of the procedural steps by the Planning Inspectorate.

To withdraw an Appeal the Appellant must notify the Planning Inspectorate, in writing, and copy the notification to the local authority.

Definitions

In relation to this Permit, the following expressions shall have the following meanings:

“Application” means the application for this Permit, together with any response to a notice served under Schedule 4 to the EPR Regulations and any operational change agreed under the conditions of this Permit.

“EPR Regulations” means the Environmental Permitting (England and Wales) Regulations S.I.2016 No. 1154 (As Amended) and words and expressions defined in the EPR Regulations shall have the same meanings when used in this Permit save to the extent they are explicitly defined in this Permit.

“Permitted Installation” means the activities and the limits to those activities described in this Permit.

“Monitoring” includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

“Regulator” means any officer of Sheffield City Council who is authorised under section 108(1) of the Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in Section 108(1) of that Act.

“BAT” means 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 bases for emission limit values designed to prevent, and where that is not practical, generally to reduce emissions and the impact on the environment as a whole. For those purposes:

“available techniques” means those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the Operator;

“best” means, in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole; *“techniques”* include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned. Schedule 2 of the Regulations shall have effect in relation to the determination of best available techniques;

“Fugitive Emission” means an emission to air from the permitted installation that is not controlled by an emission limit imposed by a condition of this Permit.

Description of Activities

This Permit covers the following activities to be carried out within the site location plan as detailed in Schedule 1 of this Permit:

a. **Abrasive blasting.**

The cleaning by gritblasting of metallic structures in three blast rooms, namely, 2 Bay, 3 Bay and 4 Bay (heavy lifting bay). Emissions from 3 Bay and 4 Bay shotblast units are extracted to Airco dust extractor units containing fabric filters. Emissions from the 2 Bay shotblast unit are extracted to a Tilghman bag filter unit. Once the particulate emissions have been filtered through either the Tilghman bag filter or the Airco dust extractor the air is then vented back into the building.

b. **Thermal spraying.**

The thermal spraying of zinc and aluminium metals utilising METCO spray guns in 3 Bay. Emissions from this Bay are extracted through a cyclone with pre-filter before being emitted back into the building.

c. **Isocyanate Coatings.**

The application of coatings containing isocyanates in 2 Bay and 3 Bay using airless spray guns. Emissions from this activity are uncaptured and not extracted directly to atmosphere. This process does not occur regularly and if it is to take place it will be carried out at night when there are limited numbers of staff within the vicinity of the spraying and the employees carrying out the spraying are fully equipped with appropriate PPE.

d. **Coatings Containing Volatile Organic Compounds.**

The application of coatings containing volatile organic compounds to metal structures in 2 Bay, 3 Bay and 4 Bay, using GRACO airless sprayguns, conventional sprayguns and HVLP (high volume, low pressure) sprayguns where the atomisation pressure is less than 69kPa (10psi). Emissions from this activity are uncaptured and not exhausted directly to atmosphere.

e. This permit also applies to the receipt of raw materials, the handling, storage and transport on site of waste materials within the installation boundary highlighted on the installation layout shown in Schedule 2 of this Permit.

Conditions of Permit

Section 1 – Upgrading

1.1 There are no upgrading requirements.

Section 2 – Plant and Equipment

- 2.1 The permitted activity shall be carried out at the site as indicated by the red outline on the plan in Schedule 1 of this Permit.
- 2.2 The permitted activity shall only be carried out using the plant and equipment as detailed in the Description of Activities and on the site layout reproduced in Schedule 2 of this permit.
- 2.3 The Operator shall give written notification to Sheffield City Council's Environmental Protection Service, hereafter referred to as "the Regulator", in the following instances;
- a) Permanent cessation of the operation of any part of, or all of the permitted installation;
 - b) Cessation of the operation of any part of, or all of the permitted installation for a period likely to exceed 1 year;
 - c) Any proposed change in the operation of the installation, including removal, replacement or changes in the operation;
 - d) Resumption of the operation of any part of, or all of the permitted installation after a cessation notified under (b) above.

Section 3 – Emission Limits and Controls

- 3.1 All emissions to the external air, other than steam or condensed water vapour shall be free from droplets and free from persistent mist, persistent fume and persistent visible emissions.
- 3.2 There shall be no offensive odour detectable beyond the site boundary and no visible emissions beyond the site boundary, as perceived by the Regulator.
- 3.3 There shall be no visible dust or particulate matter detectable beyond the site boundary, as perceived by the Regulator.
- 3.4 The Operator shall ensure VOC compliance through a solvent reduction scheme. Compliance with the reduction scheme shall be achieved if the annual actual solvent emission determined from the solvent management plan is less than or equal to the target emission of:

Total mass of solids x 0.6 where solvent consumption is 5-15 tonnes
Total mass of solids x 0.37 where solvent consumption is over 15 tonnes

where the annual actual solvent emission = $I_1 - O_8 - O_7 - O_6$

Details of inputs and outputs are detailed within Schedule 3.

- 3.5 No plant or equipment used for any activity shall be operated with an extraction point direct to atmosphere unless specifically noted within this Permit or agreed in writing with the Regulator. The Operator shall ensure that if works are intended to be carried out to extract emissions of isocyanates or other coating emissions directly to atmosphere, that the Regulator shall be informed prior to any change to the installation as addition of any extraction equipment could require a substantial change application.
- 3.6 The use of odour masking agents is not permitted. Where offensive odour is detected at the process boundary, counteractants may be used only by agreement in writing of the Regulator.
- 3.7 There shall be no burning of materials, including waste, in the open air, inside buildings or in any form of incinerator in connection with the activities within the installation boundary, without permission in writing from the Regulator.
- 3.8 Paint application shall only be carried on inside the building with the roller shutter doors closed.
- 3.9 Shotblasting shall only occur in the dedicated booths or self-contained plant with the filters in place and extraction operating.

Section 4- Monitoring, Sampling and Measurement of Emissions.

- 4.1 The Operator shall ensure that a detailed inventory of all solvent usage shall be kept and forwarded to the Regulator every six months and within four weeks of the end of the six month period to which the inventory relates. This inventory shall include cleaning solvent usage, diluent solvent usage and the solvent or organic compound content of coatings and the quantity of coating purchased. The inventory shall also include all solvents removed from the site as waste and any quantities recovered for re-use, and the quantity of solvents used for cleaning or degreasing. The next inventory shall be submitted by 31st October 2022.
- 4.2 The Operator shall ensure that a visual assessment of emissions from the bag filter units serving the shotblasting rooms shall be carried out once a week when the shotblasting is being carried out. The assessments shall last for a duration of one minute. The results of the visual assessments shall be recorded in the logbook kept in accordance with Condition 4.5 of this Permit.
- 4.3 The Operator shall ensure that an olfactory assessment of emissions from the building housing the process is carried out at least once a day for a period of at least two minutes when spraying is being carried out. The assessment shall be made down wind of the roller shutter doors at a point on the installation boundary. The results of these assessments shall be recorded in the logbook kept in accordance with Condition 4.5 of this Permit.

- 4.4 The Operator shall ensure that a visual inspection of the condition of the extraction units, bag filter unit, associated housing and ductwork is carried out at least once a week. Any faults, accumulations, deposits, damaged or clogged filter bags or any other defect shall be rectified without delay. The result of these inspections and any remedial action taken shall be recorded in the logbook kept in accordance with Condition 4.5 of this permit.
- 4.5 The Operator shall ensure that a logbook containing all results of inspections, tests and assessments made in accordance with Conditions 4.2, 4.3, 4.4 and 9.6 of this Permit is kept. These records shall include the date and time of the inspection, the nature, colour, persistency and intensity of any emission and a name of the person carrying out the inspection. Adverse results shall be investigated immediately and in all cases shall be recorded in the logbook. The logbook shall be kept on the premises available for inspection by the Regulator. Such records shall be kept for a minimum of two years and shall be furnished in writing to the Regulator on demand.
- 4.6 In case of abnormal emissions, the operator shall:
- Immediately investigate the cause and take corrective action;
 - Adjust the process or activity to minimise the emissions;
 - Promptly record the events and action taken.
- 4.7 The Operator shall inform the Regulator of any abnormal emissions within 1 week of the event unless there is an emission that is likely to have an effect on the local community in which case the information shall be forwarded without delay and in any event no later than 10am the following working day.

Section 5- Materials Handling

- 5.1 All spillages shall be cleared as soon as possible and in the case of fine materials this shall be achieved by the use of vacuum cleaning, wet methods, or other appropriate techniques. Dry sweeping or the use of compressed air to blow surfaces clean shall not be permitted. Dusty materials shall be stored in closed containers and handled in a manner that prevents emissions.
- 5.2 All organic solvents shall be stored in sealed containers prior to use. Emissions from the emptying of storage and mixing vessels and the transfer of coating to the application area shall be contained by the use of covered or closed delivery systems. The only exception to this is when Boric acid is being used and applied by trowel or roller application.
- 5.3 Emissions from the emptying of mixing vessels and transfer of materials shall be adequately contained by the use of closed mobile containers, containers with close fitting lids or closed containers with pipeline delivery.
- 5.4 All potentially odorous waste materials, for example, waste cleaning solvents shall be stored in suitable enclosed containers in order to ensure that emissions are free from offensive odour outside the process site boundary.

- 5.5 All reasonable efforts shall be made to minimise the amount of residual organic solvent bearing material left in drums and other containers after use.
- 5.6 Spillages of materials containing solvents shall be cleared without delay.
- 5.7 Suitable organic solvent containment and sufficient spill kits shall be suitably located. All staff shall be trained in the use of the spill kits to ensure that if a spillage was to occur then this would be contained expediently.
- 5.8 Waste contaminated with solvents such as wiping cloths or material used to clear spillages shall be handled and disposed of in a manner which minimises emissions of VOCs to the air, such as in closed containers.
- 5.9 Prior to disposal empty drums and containers contaminated with organic solvent should be closed to minimise emissions from residues during storage prior to disposal. The drums or containers shall be labelled so that all persons handling the waste are aware they contain solvents.

Section 6- Designated Hazard Statement Materials and Substitution Plan

- 6.1 Designated “Hazard Statement” materials¹, used in the installation must be replaced, or controlled and limited, as set out in PG 6/23(11) for Coating of Metal and Plastic Processes.
- 6.2 The Operator shall maintain a register of designated Hazard Statement materials¹ used in the installation. The register shall be made available for inspection by the Regulator upon request.
- 6.3 The Operator shall inform the Regulator in writing of any proposed changes to the Hazard Statement register at least 7 days prior to the changes taking place.

¹ Materials designated, because of their VOC content: Hazard Statement H340, H350, H350i, H360D or H360F.
Materials designated because of their halogenated VOC content: Hazard Statements H341 or H351.

Section 7- Solvent Management Plan

- 7.1 The Operator shall produce and submit a Solvent Management Plan to the Regulator on an annual basis and this shall be submitted by 30th April each year. The next Solvent Management Plan is due to be submitted on 30th April 2023. The Solvent Management Plan shall be produced in accordance with clauses 4.11 to 4.12 of PG 6/23 (11) (revised June 2014). The Solvent Management Plan inputs and outputs have been reproduced in Schedule 3 to this permit

- 7.2 The Operator shall submit details to the Regulator for written approval any proposal to carry out any of the following activities:
- Replacement of low or no VOC solvent coating systems with conventional high VOC content coating systems;
 - Introduction of conventional high VOC content coating systems into the process;
 - Introduction of conventional high VOC content coating systems onto products where it was not previously used;
 - Introduction of high solids formulations which have no beneficial effect on the product but increase the solids used, except where a reduction in the overall VOC emissions can be demonstrated.

Section 8- Solvent Reduction Scheme

- 8.1 The Target Emission Value shall be calculated according to the method described in clauses 4.5 to 4.8 of PG 6/23 (11) revised June 2014
- 8.2 The Operator shall forward an Emissions Reduction Plan to the Regulator by 30th April 2023. The Emissions Reduction Plan shall include (but not be limited to):
- a) decreases in the average solvent content of the total coating and cleaning materials inputs;
 - b) increased efficiency in the use of solids in coating materials; and
 - c) Target Emissions Values calculations.

The Emissions Reduction Plan shall be reviewed annually and submitted by 30th April every subsequent year.

Section 9- General Operations

- 9.1 Effective, preventative maintenance shall be employed on all plant and equipment concerned with the control of emissions to air. Essential spares and consumables shall be held on site or be available at short notice from suppliers, such as bag filters, in order to rectify a breakdown rapidly.
- 9.2 Any malfunction or breakdown such as arrestment plant failure leading to abnormal emissions shall be dealt with promptly and process operations adjusted until normal operations can be restored. All such malfunctions shall be recorded in the logbook kept in accordance with condition 4.5 of this permit. If there is likely to be an effect on the local community, the Regulator shall be informed without delay and by no later than 10.00 am the following working day.
- 9.3 The Operator shall keep a maintenance programme in relation to pollution control equipment. Records shall be kept of maintenance works carried out. The maintenance programme and maintenance records shall be made available for inspection by the Regulator upon request.

- 9.4 Staff at all levels shall receive the necessary training in their duties relating to control of the process and emissions to air. The training shall include:
- a) awareness of responsibilities under this Permit with particular emphasis on conditions likely to give rise to VOC emissions (e.g. spillages);
 - b) minimising emissions at start-up and shutdown; and
 - c) actions to minimise emissions during abnormal operations.
- 9.5 The operator shall retain a statement of training requirements for each operational post. A training record shall be kept for each person whose actions may have an impact on the environment. These documents shall be made available to the Operator upon request.
- 9.6 Chimney flues and ductwork serving the bag filter units shall be inspected at least once per month and cleaned as necessary in order to prevent accumulation of material both on the internal ducting and on external ledges. Details of the inspection and any cleaning necessary as a result of the inspection shall be recorded in the logbook kept in accordance with Condition 4.5 of this Permit.
- 9.7 The process shall operate and adhere to the provisions of an appropriate Environmental Management System such as a site specific type or ISO 14001.
- 9.8 The best available techniques shall be used to prevent or, where that is not practicable, reduce emissions from the installation in relation to any aspect of the operation of the installation which is not regulated by any other condition of this Permit.
- 9.9 The Operator shall notify the following to the Regulator, in writing, within 14 days of their occurrence:
- Any change in the trading name of Specialist Protective Coatings Ltd registered name or registered office address;
 - A change to any particulars of any ultimate holding company of Specialist Protective Coatings Ltd (including details of an ultimate holding company where Specialist Protective Coatings Ltd has become a subsidiary);
 - Any steps taken with a view to Specialist Protective Coatings Ltd going into administration, entering into a company voluntary arrangement or being wound up.
- 9.10 The Operator shall notify the Regulator **without delay** of:
- a) The detection of an emission of any substance, which exceeds any limit or criterion in this Permit, specified in relation to the substance;
 - b) The detection of any fugitive emission that has caused, is causing or may cause significant pollution, unless the quantity emitted is so trivial that it would be incapable of causing significant pollution;
 - c) The detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution;
 - d) Any accident, which has caused, is causing or has the potential to cause significant air pollution

9.11 All reports and notifications required by this Permit, or under any Regulation under the Environmental Permitting Regulations 2016, as amended, shall be sent to the Regulator. Unless notified in writing, all reports, notifications and communications in respect of this Permit shall be sent to:

epsadmin@sheffield.gov.uk or ippc@sheffield.gov.uk

or

**Sheffield City Council
Environmental Protection Service
Floor 5 Howden House
1 Union Street
Sheffield
S1 2SH.**

END OF CONDITIONS

Please Note

Where complaint is attributable to the operation of the installation and is, in the opinion of the Local Authority, justified, or if new knowledge develops on the potential for harmful effects from emissions, an immediate review of the Permit shall be undertaken. The Local Authority shall subsequently specify any new requirements and compliance time scales.

An annual subsistence fee as prescribed by the Secretary of State for the Environment shall be payable, for this Permit, by the process Operator, to this Authority within 2 weeks of the 1st of April of each year.

In the event that the Permit has been issued after the 1st of April in the initial year then the subsistence fee shall be pro rata for the complete months remaining and shall be due within 2 weeks of the Permit issue date.

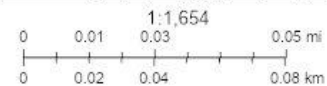
If the relevant payment is not received by the Regulator, Sheffield City Council's Environmental Protection Service, then Permit revocation procedures may be initiate

Schedule 1 – Site Location Plan

Site Location



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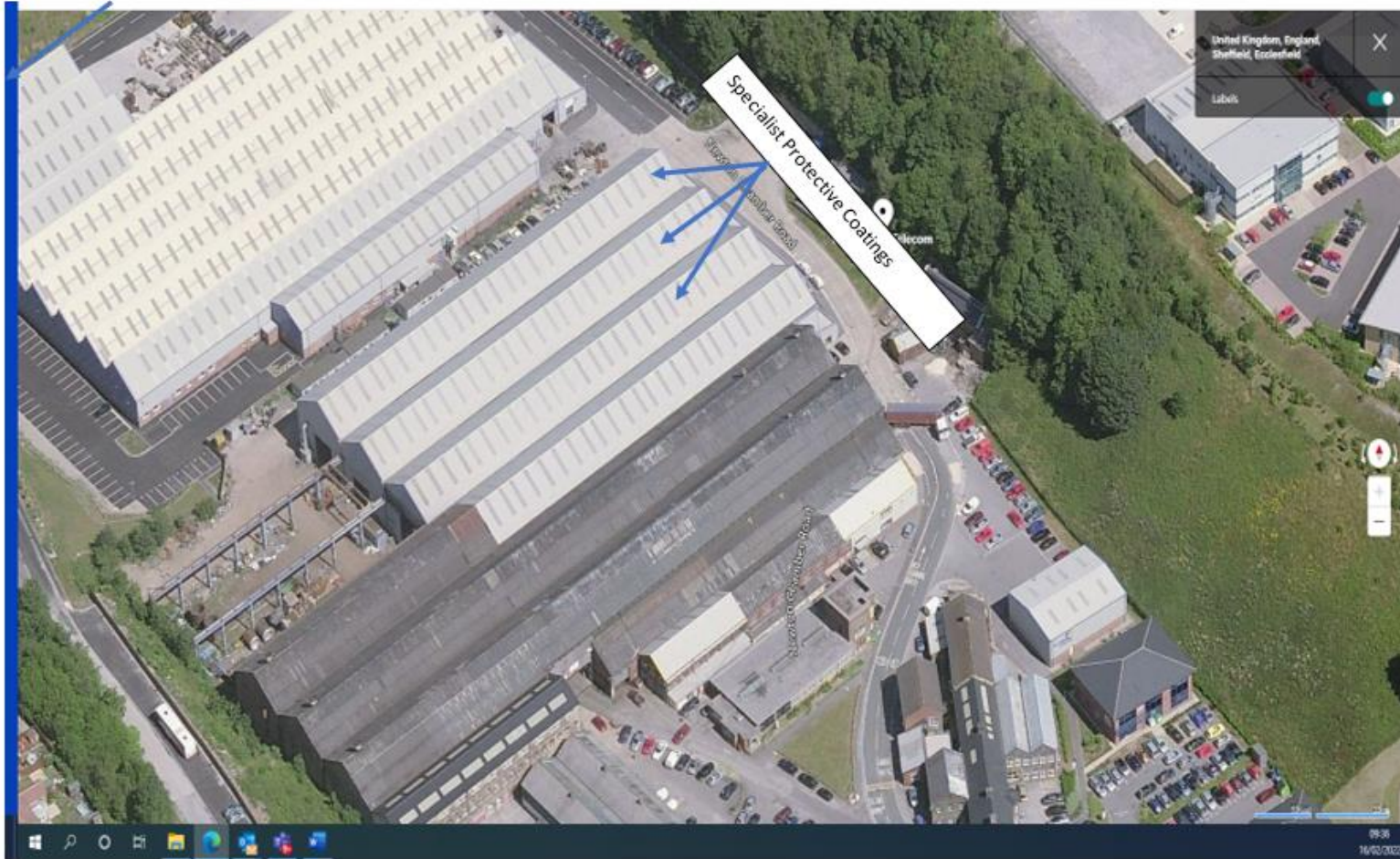
Sheffield City Council
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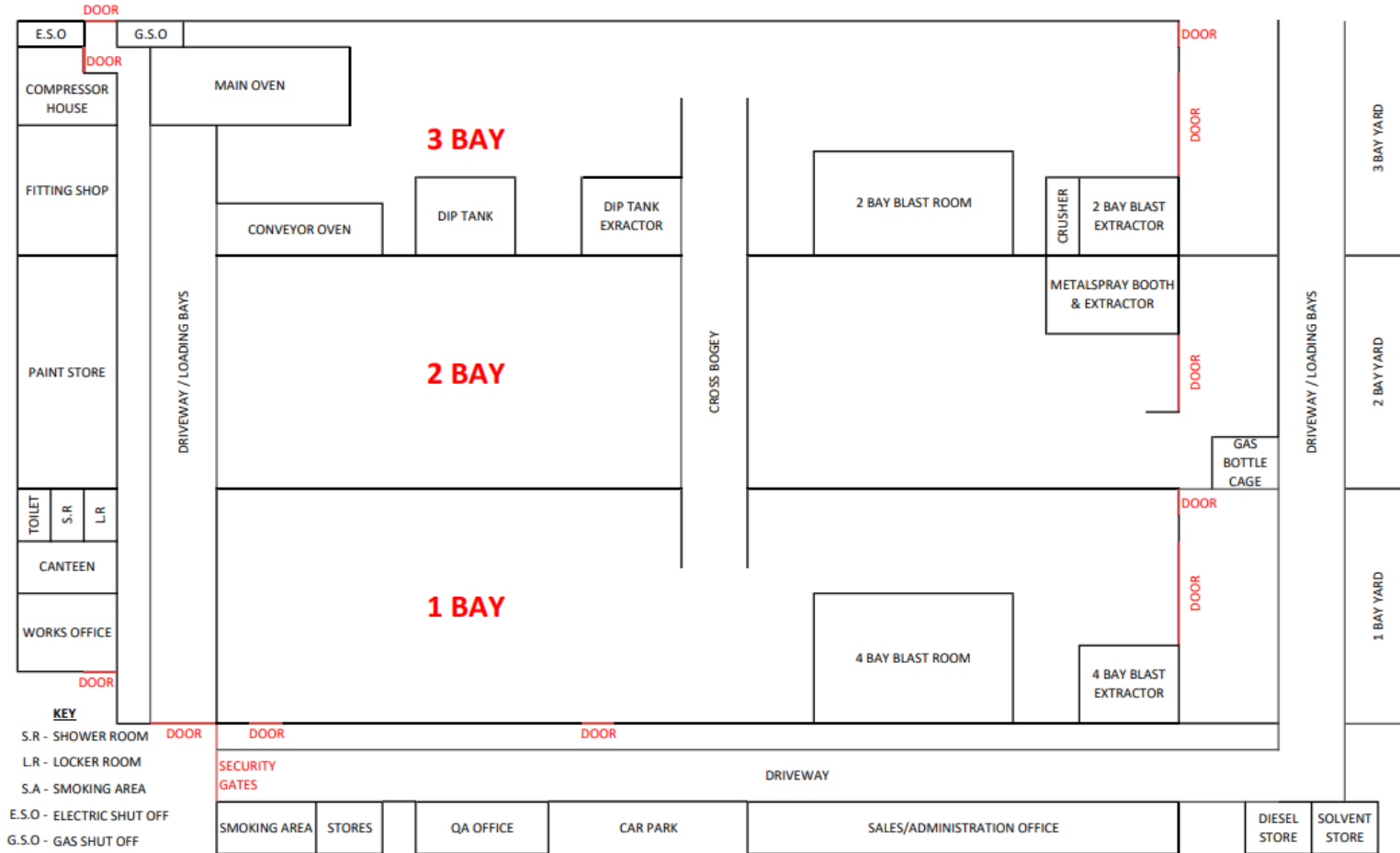
Specialist Protective Coatings

Specialist Protective Coatings Ltd
Unit 22 Newton Chambers Road, Thorncliffe Park Estate,
Chapelton, Sheffield, S35 2PH

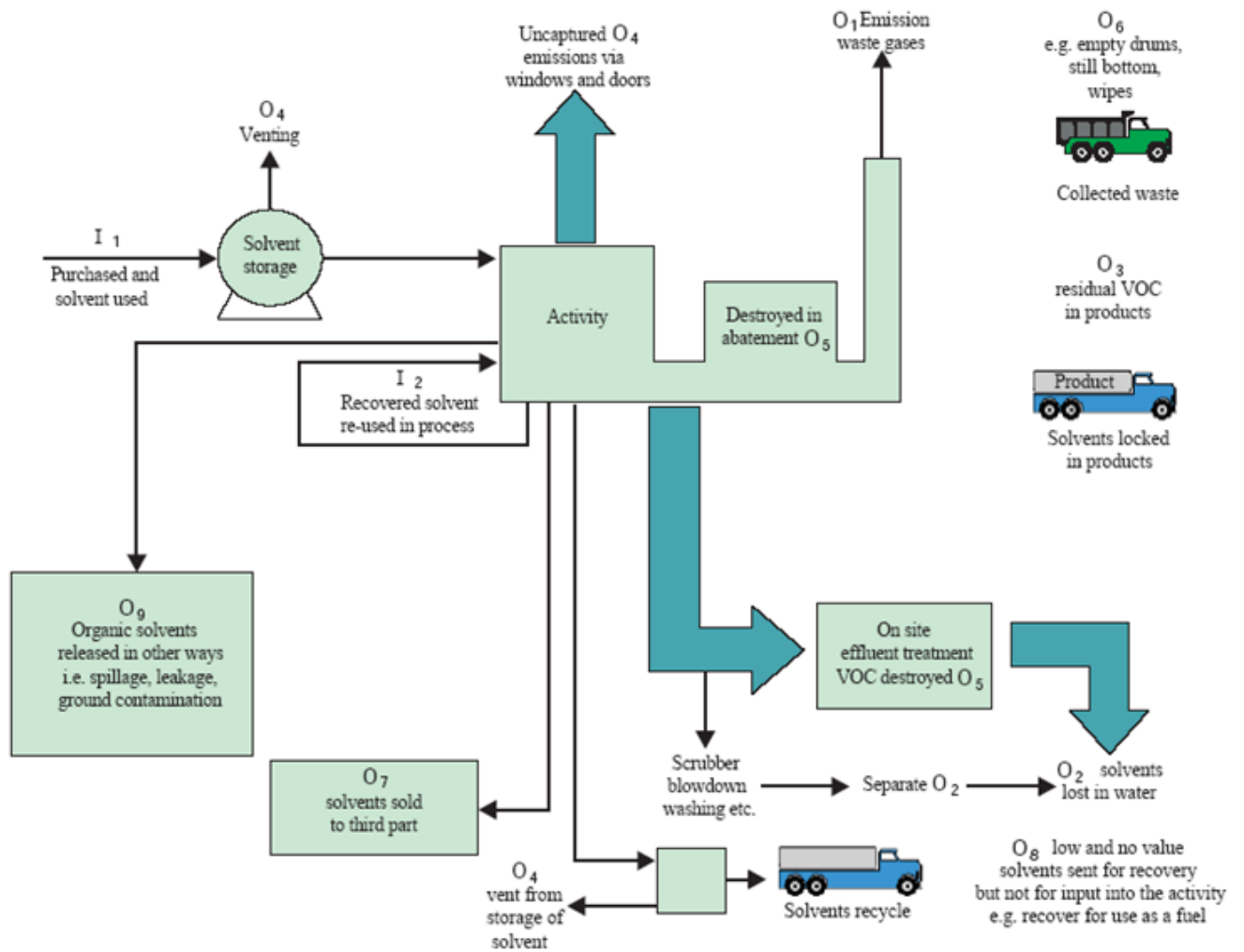
0114 321 2651
enquiries@specialistprotectivecoatings.co.uk
www.specialistprotectivecoatings.co.uk



Schedule 2 Site Layout



Schedule 3 Solvent Inputs and Outputs



<p>Solvent management plan</p> <p>Consumption = $I_1 - O_8$</p> <p>Actual solvent emission = $I_1 - O_5 - O_6 - O_7 - O_8$</p> <p>Fugitive emission (F) = $I_1 - O_1 - O_5 - O_6 - O_7 - O_8$</p> <p>or $F = O_2 + O_3 + O_4 + O_9$</p>	<p>Solvent Emission Directive (SED) activities</p> <p>Fugitive emission value = $\frac{F}{I_1 + I_2} \times 100\%$</p> <p>Total emission = $O_1 + \text{Fugitive emission (F)}$</p>
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Inputs:

How much solvent is:

- bought, whether in pure form or contained in products
- recycled back into the process

Outputs:

How much solvent is:

- emitted to air, whether directly or via abatement equipment;
- discharged to water, whether directly or via water treatment;
- sent away in waste;
- lost by spills, leaks etc;
- leaving the installation in the product.

Inputs of Organic Solvent in the time frame over which the mass balance is being calculated (I)

I1 The quantity of organic solvents or their quantity in mixtures purchased which are used as input into the process/activity

I2 The quantity of organic solvents or their quantity in mixtures recovered and reused as solvent input into the process/activity. (The recycled solvent is counted every time it is used to carry out the activity).

Outputs of Organic Solvents in the time frame over which the mass balance is being calculated (O)

O1 Emissions in waste gases.

O2 Organic solvents lost in water, if appropriate taking into account wastewater treatment when calculating O5.

O3 The quantity of organic solvents which remains as contamination or residue in products output from the process/activity.

O4 Uncaptured emissions of organic solvents to air. This includes the general ventilation of rooms, where air is released to the outside environment via windows, doors, vents and similar openings.

O5 Organic solvents and/or organic compounds lost due to chemical or physical reactions (including for example those which are destroyed, e.g. by thermal oxidation or other waste gas or wastewater treatments, or captured, e.g. by adsorption, as long as they are not counted under O6, O7 or O8).

O6 Organic solvents contained in collected waste.

O7 Organic solvents, or organic solvents contained in mixtures, which are sold or are intended to be sold as a commercially valuable product.

O8 Organic solvents contained in mixtures recovered for reuse but not as input into the process/activity, as long as not counted under O7.

O9 Organic solvents released in other ways