

1

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not

2

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

3

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

4

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

5

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Core Materials Corporation** located in **Franklin** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

regulations.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>
R008	Batch paint booth #4	Use of filter with a minimum control efficiency of 98% for control of particulates. Use of an air spray gun with a minimum transfer efficiency of 50%. Compliance with permitted limits and applicable rules and regulations.	3745-31-05 3745-21-07 (G) (2) 3745-17-11
P051	Batch paint booth oven #4	Compliance with permitted limits and applicable rules and regulations.	3745-31-05 3745-21-07 (G) (1)

Facility Name: **Core Materials Corporation**
Application Number: **01-7438**
Date: **September 30, 1998**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
				<p>not than the limits established by this rule.</p> <p>Permit Allowable Mass Emissions and/or Control/Usage Requirements</p> <p>3 lbs of OC/hr</p> <p>15 lbs of OC/day</p> <p>0.34 lb particulate matter per 1.5 tons of particulate matter per year.</p> <p>8 lbs of OC/hr</p> <p>40 lbs of OC/day</p> <p>BAT established by this permit more stringent</p>

Facility Name: **Core Materials Corporation**
Application Number: **01-7438**
Date: **September 30, 1998**

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Organic compounds	10.04
Particulate matter	1.5

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA Central District Office, 3232 Alum Creek Drive, Columbus, Ohio 43207-3417.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

8

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Operational Restrictions

1. The permittee shall ensure that all exhaust filters are in place and operating correctly at all times that emission unit R008 is in use.
2. All coating operations causing air emissions, including operations outside of the spray booth, shall occur only when the exhaust fans of the spray booth are operating.

B. Recordkeeping Requirements for Emission Units R008 and P051

1. The permittee shall collect and record the following information for each day for the coating operation for emission unit R008:
 - a. the company identification for each coating and photochemically reactive cleanup material employed;
 - b. the number of gallons of each coating and photochemically reactive cleanup material employed;
 - c. the organic compound content of each coating and photochemically reactive cleanup material, in pounds per gallon;

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

- d. the total organic compound emission rate for all photochemically reactive cleanup materials, in pounds per day;
- e. the total (prior to applying the booth/oven "split") daily organic compound emission rate for all coatings, in pounds per day;
- f. the total daily organic compound emission rate for all coatings multiplied by the maximum percentage of the emissions associated with this emissions unit (as defined in condition C of this permit), in pounds per day;
- g. the total organic compound emission rate for all coatings and photochemically reactive cleanup materials, in pounds per day (i.e., the sum of the figures from items (d) and (f));
- h. the total number of hours the emissions unit was in operation; and,
- i. the average hourly organic compound emission rate for the coatings and photochemically reactive cleanup materials, i.e., (g)/(h), in pounds per hour (average).

[Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit. Also, the definitions of "photochemically reactive" and "nonphotochemically reactive" are based upon OAC rule 3745-21-01(C) (5).]

- 2. The permittee shall collect and record the following information for each day for the oven (P051):
 - a. the total (prior to applying the booth/oven "split") uncontrolled daily organic compound emission rate for all coatings, employed in the coating operation associated with this emissions unit, multiplied by the maximum percentage of the emissions associated with this emissions unit (as defined in condition 4 of this permit), in pounds per day;
 - b. the total number of hours this emission unit was in operation. (This number should be the same as the number of hours the associated coating operation was in operation); and

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

- c. the average hourly organic compound emission rate, i.e., (a)/(b), in pounds per hour (average).
3. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five (5) years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

C. Description of the "split" of uncontrolled organic compound emissions between a spray booth and associated oven for R008

1. For purposes of calculating the organic compound emission rates for this emissions unit and the associated oven (P051), the permittee shall utilize a value of 85 percent as the maximum percentage of the organic compounds employed in this emissions unit that are emitted uncontrolled from the emissions unit. The remaining 15 percent of the organic compounds employed in this emissions unit shall be considered to be the uncontrolled emissions for the associated oven. This "split" of organic compound emissions between this emissions unit and the associated oven is based upon an earlier stack test at the main booth-oven setup.

D. Description of the "split" of uncontrolled organic compound emissions between a spray booth and associated oven for P051

1. For purposes of calculating the organic compound emission rates for this emissions unit and the associated spray booth (R008) the permittee shall utilize a value of 85 percent as the maximum percentage of the organic compounds employed in the spray booth that are emitted uncontrolled from the spray booth. The remaining 15 percent of the organic compounds employed in the spray booth shall be considered to be the uncontrolled emissions for this emissions unit. This "split" of organic compound emissions between this emissions unit and the associated spray booth is based upon an earlier stack test at the main booth-oven

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

setup.

E. Reporting Requirements for Emission Unit R008 and P051

1. The permittee shall submit deviation (excursion) reports for emission unit R008 which include the following information:
 - a. an identification of each day during which the average hourly organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 8 pounds per hour, and the actual hourly organic compound emissions for each such day; and,
 - b. an identification of each day during which the organic compound emissions from the coatings and photochemically reactive cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
2. The permittee shall submit deviation (excursion) reports for emission unit P051 which include the following information:
 - a. an identification of each day during which the average hourly organic compound emissions exceeded 3 pounds per hour, and the actual average hourly organic compound emissions for each such day; and,
 - b. an identification of each day during which the organic compound emissions exceeded 15 pounds per day, and the actual organic compound emissions for each such day.
3. The permittee shall submit required reports in the following manner:
 - a. reports of any required monitoring and/or record keeping information shall be submitted to the Ohio EPA Central District Office,
 - b. quarterly written reports of (a) any deviations (excursions) from emission limitations,

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA Central District Office. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

F. Compliance Determination for Emission Units R008 and P051

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation for R008:
8 lbs OC/hr

Applicable Compliance Method:
Compliance shall be determined by the record keeping requirements specified in Section B.1.i of these terms and conditions.

- b. Emission Limitation for R008:
40 lbs OC/day

Applicable Compliance Method:
Compliance shall be determined by the record keeping requirements specified in Section B.1.g of these terms and conditions.

- c. Emission Limitation for P051:
3 lbs OC/hr

Applicable Compliance Method:
Compliance shall be determined by the record keeping requirements specified in Section B.2.c of these terms and conditions.

- d. Emission Limitation for P051:

Facility Name: **Core Materials Corporation**

Application Number: **01-7438**

Date: **September 30, 1998**

15 lbs OC/day

Applicable Compliance Method:

Compliance shall be determined by the record keeping requirements specified in Section B.2.a of these terms and conditions.

- e. Emission Limitation:
0.34 lb particulate emissions/hour

Applicable Compliance Method:

Use of filters during all periods of spray booth operation. To determine the actual worst case emissions rate for particulate matter from emission source R008 the following equation shall be used:

$$E = \text{maximum coating solids usage rate (pounds/hr)} * (1-TE) * (1-CE)$$

Where:

E = particulate matter emissions rate (lbs/hr)

TE = transfer efficiency of painting equipment in decimal form (use 0.50), transfer efficiency is the ratio of the amount of coating solid deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment in decimal form (Use 98% for filters)