Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

Certified Mail

1/24/2011

No	TOXIC REVIEW
No	PSD
Yes	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)

Elmer Tate
HyTek Coatings, Inc.
1700 S University Blvd
Middletown, OH 45044

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1409010844
Permit Number: P0096601
Permit Type: Renewal
County: Butler

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Hamilton County Dept. of Environmental Services at (513)946-7777 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPC Web page, www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: HCDOES

Ohio | Environmental Protection Agency

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
HyTek Coatings, Inc.

Facility ID:	1409010844
Permit Number:	P0096601
Permit Type:	Renewal
Issued:	1/24/2011
Effective:	1/24/2011
Expiration:	1/24/2016

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install and Operate
for
HyTek Coatings, Inc.

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Authorization

Facility ID: 1409010844
Application Number(s): A0028223
Permit Number: P0096601
Permit Description: PTIO renewal for three coating disperser processes that were first permitted under PTI 14-03942 issued final March 20, 1996.
Permit Type: Renewal
Permit Fee: $0.00
Issue Date: 1/24/2011
Effective Date: 1/24/2011
Expiration Date: 1/24/2016
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

HyTek Coatings, Inc.
1700 S. UNIVERSITY BLVD.
MIDDLETOWN, OH 45044

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Hamilton County Dept. of Environmental Services
250 William Howard Taft Pkwy.
Cincinnati, OH 45219-2660
(513)946-7777

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

Authorization (continued)

Permit Number: P0096601
Permit Description: PTIO renewal for three coating disperser processes that were first permitted under PTI 14-03942 issued final March 20, 1996.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	**P001**
Company Equipment ID:	40 HP Coating Disperser-Hockmeyer
Superseded Permit Number:	P0096598
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P002**
Company Equipment ID:	10 HP Coating Disperser-Hockmeyer
Superseded Permit Number:	P0096599
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P003**
Company Equipment ID:	10 HP UMCO Dissolver
Superseded Permit Number:	P0096600
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above. The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

  You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2). The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Hamilton County Dept. of Environmental Services in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that

exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred. If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31. You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting[1] a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official. You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated. Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or

[1] Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

   a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

      (1) None.

   b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

      (1) 2.,3.,4. and 5.

2. The total allowable emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from emissions units P001, P002, P003 other de minimus air contaminant sources, as defined in OAC rule 3745-15-05, and other air contaminant sources exempt from the requirement to obtain a permit-to-install pursuant to OAC rule 3745-31-03 installed subsequent to the issuance of this permit, combined, shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation.

3. The permittee shall collect and record the following information each month for the emissions units identified B.2.

   a) The name and identification number of each organic solvent, excluding organic solvents in cleanup materials employed.

   b) The individual HAP content for each organic solvent, excluding organic solvents in cleanup materials, in pounds of individual HAP per pound of solvent, as employed.

   c) The total combined HAP content of each organic solvent, excluding organic solvents in cleanup materials, in pounds of combined HAPs per pound of organic solvents, as employed [sum all the individual HAP contents from b].

   d) The number of pounds of each organic solvent, excluding organic solvents in cleanup materials, employed.

   e) The name and identification of each cleanup material employed.

   f) The individual HAP content of each cleanup material, in pounds of individual HAP per gallon of cleanup material, as applied.

   g) The total combined HAP content of each cleanup material, in pounds of combined HAPs per gallon of cleanup material, as applied [sum all the individual HAP contents from f.].

   h) The number of gallons of each cleanup material employed[i.e. the amount of cleanup materials used, minus the amount of cleanup materials collected for reuse, as calculated in Section d)(2).

   i) The total individual HAP usage for each HAP from all organic solvents and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) for each organic

solvent, times 0.015 (1.5% emission factor, from AP-42, Chapter 6.4.1) for each organic solvent, for each organic solvent, plus the sum of (f) times (h) for each cleanup material (and divided by 2,000 lbs/ton if the units are in tons)].

j) The total combined HAP usage from all organic solvents and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) for each organic solvent, times 0.015 (1.5% emission factor, from AP-42, Chapter 6.4.1) for each organic solvent, plus the sum of (g) times (h) for each cleanup material (and divided by 2,000 lbs/ton if the units are in tons)].

k) The updated rolling, 12-month summation of usage for individual HAP emissions**, in tons (This shall include the information for the current month and the preceding eleven calendar months.) and

l) The updated rolling, 12-month summation of usage for total combined HAP emissions**, in tons. This shall include the information for the current month and the preceding eleven calendar months.

** This assumes the HAPs emitted are the same as the amount of HAPs used since all HAPs used evaporate.

A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Ohio EPA field office or local air agency contact. This information does not have to be kept on a line-by-line basis.

4. The permittee shall submit quarterly deviation (excursion) reports that identify:

m) all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

HAP emissions in exceedance of 9.9 tons per year (TPY) for any single HAP, as a rolling, 12-month summation and 24.9 TPY for any combination of HAPs, as a rolling, 12-month summation.

n) the probable cause of each deviation (excursion);

o) any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and

p) the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

5. Compliance with the HAP's emission limitations in B.2. shall be demonstrated by the record keeping in B.3.

C. Emissions Unit Terms and Conditions

1. P001, 40 HP Coating Disperser-Hockmeyer

Operations, Property and/or Equipment Description:

40 HP Coating Disperser-Hockmeyer

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05-(A)(3)	Organic Compound (OC) emissions shall not exceed 8.0 pounds per hour, 40.0 pounds per day and 3.8 TPY. Particulate emissions (PE) shall not exceed 4.03 pounds per hour and 1.5 TPY. Particulate emissions of 10 microns or less (PM10) shall not exceed 3.43 pounds per hour and 1.3 TPY. See b)(2)a. and c)(1) through c)(5). The requirements of this rule includes compliance with OAC rule 3745-17-07(A)(1).
b.	OAC rule 3745-31-05(D)	See Section B.2. through B.5.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity,

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		as a six-minute average.
d.	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. The organic compound (OC) content of the cleaning material used in this emissions unit shall not exceed 7.25 pounds per gallon as applied.

c) Operational Restrictions

(1) The amount of organic solvents excluding organic solvents in cleaning materials used in this emissions unit shall not exceed 1067 pounds per hour, 3400 pounds per day, and 200 tons per year.

(2) The amount of pigments used in this emissions unit shall not exceed 806 pounds per hour and 300 tons per year.

(3) The amount of cleanup materials lost while cleaning this emissions unit (equal to the amount of solvent used for cleanup minus the amount of solvent collected to be used again) shall not exceed 2 gallons per day and 625 gallons per year.

(4) The total combined amount of chrome oxides used in emissions units P001, P002 and P003 shall not exceed 12.7 pounds per hour.

(5) A tight fitting cover shall be employed on all material containers except during loading and unloading.

d) Monitoring and/or Recordkeeping Requirements

(1) This facility shall maintain daily records of the following information for this emissions unit:

a. the total amount of organic solvents employed, in pounds;

b. the total amount of pigments employed, in pounds;

c. the total amount of chrome oxides employed, in pounds;

d. the total hours of operation;

e. the OC content of each cleanup material employed, in lbs per gallon;

f. the total amount of cleanup materials employed, in gallons;

g. the total amount of cleanup materials collected for reuse, in gallons;

h. the amount of cleanup materials lost from cleaning operations calculated in accordance with the following equation:

cleanup materials lost (gallons) = [total gallons of cleanup material used] - [total gallons of cleanup material collected for reuse];

i. the total usage of organic solvents (a)/(d); pigments (b)/(d); and chrome oxides (c)/(d), in pounds per hour (average); and

j. the total combined chrome oxide usage, lbs/hour, for emission units P001, P002, and P003.

(2) The permittee shall maintain annual records of the following information for this emissions unit:

a. the total amount of organic solvents employed, in tons;

b. the total amount of pigments employed, in tons; and

c. the total amount of cleanup materials lost, in gallons.

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Emissions Limitations:

Particulate emissions (PE) shall not exceed 4.03 pounds per hour and 1.5 TPY.

Particulate emissions of 10 microns or less (PM10) shall not exceed 3.43 pounds per hour and 1.3 TPY.

Applicable Compliance Method:

The emission limitations were determined using the following equations and AP42 emission factors (AP42 chapter 6 table 6.4.1, 5/83 reformatted 1/95) for PE. PM10 is assumed to be 85 % of PE. 50% control efficiency for covers.

<u>Hourly PE/PM10 Emission Limitations</u>

806 pounds of pigment/hour x 20 pounds of PE/ ton of pigment x (1-.50) x ton/2000 pounds = 4.03 pounds per hour PE.

4.03 pounds of PE/hour x 0.85 pound of PM10/pound of PE = 3.43 pounds of PM10/hour.

Annual PE/PM10 Emission Limitations

300 tons of pigment/year x 20 pounds of PE/ ton of pigment x (1-.50) x ton/2000 pounds = 1.5 tons per year PE.

1.5 tons of PE/year x 0.85 pound of PM10/pound of PE = 1.27 TPY PM10

(2) Emissions Limitations:

Organic Compound (OC) emissions shall not exceed 8.0 pounds per hour, 40.0 pounds per day and 3.8 TPY.

Applicable Compliance Method:

The emission limitations were determined using the following equations and AP42 emission factors (AP42 chapter 6 table 6.4.1, 5/83 reformatted 1/95) for OC. 50% control efficiency for covers.

Hourly OC Emission Limitation

1067 pounds of solvent/hour x 30 pounds of OC/ ton of solvent x (1-.50) x ton/2000 pounds = 8.0 pounds per hour OC.

Daily OC Emission Limitation

1.7 tons of solvent/day x 30 pounds of OC/ ton of solvent x (1-.50) = 25.5 pounds per day OC.

2 gallons cleanup solvent/day x 7.25 pounds of OC/gallon of cleanup solvent = 14.5 pounds of OC per day.

25.5 pounds per day OC + 14.5 pounds per day OC = 40.0 pounds per day OC.

Annual OC Emissions Limitation

200 tons of solvent/year x 30 pounds of OC/ ton of solvent x (1-.50) x ton/2000 pounds = 1.5 tons per year OC.

625 gallons cleanup solvent/year x 7.25 pounds of OC/gallon of cleanup solvent x ton/2000 pounds = 2.26 tons of OC per year.

1.5 tons per year OC + 2.26 tons per year OC = 3.8 tons per year OC.

(3) Emissions Limitation:

Visible particulate emissions from any stack shall not exceed 10% opacity, as a six-minute average.

Applicable compliance method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60.

(4) Compliance with the hourly and daily solvent and cleanup material usage limitations in c)(1) and c)(3) respectively, shall be demonstrated by the recordkeeping in d)(1).

(5) Compliance with the hourly pigment usage limitation in c)(2) shall be demonstrated by the recordkeeping in d)(1).

(6) Compliance with the combined hourly chrome oxide usage limitation for emission units P001, P002 and P003 shall be demonstrated by the recordkeeping required in d)(1).

(7) Compliance with the annual solvent, pigment and cleanup material usage limitations in c)(1), c)(2), c)(3) respectively, shall be demonstrated by the recordkeeping in d)(2).

(8) Compliance with the cleanup material OC content limitation in b)(2)a. shall be demonstrated by the recordkeeping in d)(1).

g) Miscellaneous Requirements

(1) None.

2. P002, 10 HP Coating Disperser-Hockmeyer

Operations, Property and/or Equipment Description:

10 HP Coating Disperser-Hockmeyer

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05-(A)(3)	Organic Compound (OC) emissions shall not exceed 8.0 pounds per hour, 40.0 pounds per day and 3.8 TPY. Particulate emissions (PE) shall not exceed 4.03 pounds per hour and 1.5 TPY. Particulate emissions of 10 microns or less (PM10) shall not exceed 3.43 pounds per hour and 1.3 TPY. See b)(2)a. and c)(1) through c)(5). The requirements of this rule includes compliance with OAC rule 3745-17-07(A)(1).
b.	OAC rule 3745-31-05(D)	See Section B.2. through B.5.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity,

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		as a six-minute average.
d.	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. The organic compound (OC) content of the cleaning material used in this emissions unit shall not exceed 7.25 pounds per gallon as applied.

c) Operational Restrictions

(1) The amount of organic solvents excluding organic solvents in cleaning materials used in this emissions unit shall not exceed 1067 pounds per hour, 3400 pounds per day, and 200 tons per year.

(2) The amount of pigments used in this emissions unit shall not exceed 806 pounds per hour and 300 tons per year.

(3) The amount of cleanup materials lost while cleaning this emissions unit (equal to the amount of solvent used for cleanup minus the amount of solvent collected to be used again) shall not exceed 2 gallons per day and 625 gallons per year.

(4) The total combined amount of chrome oxides used in emissions units P001, P002 and P003 shall not exceed 12.7 pounds per hour.

(5) A tight fitting cover shall be employed on all material containers except during loading and unloading.

d) Monitoring and/or Recordkeeping Requirements

(1) This facility shall maintain daily records of the following information for this emissions unit:

a. the total amount of organic solvents employed, in pounds;

b. the total amount of pigments employed, in pounds;

c. the total amount of chrome oxides employed, in pounds;

d. the total hours of operation;

e. the OC content of each cleanup material employed, in lbs per gallon;

f. the total amount of cleanup materials employed, in gallons;

g. the total amount of cleanup materials collected for reuse, in gallons;

h. the amount of cleanup materials lost from cleaning operations calculated in accordance with the following equation:

cleanup materials lost (gallons) = [total gallons of cleanup material used] - [total gallons of cleanup material collected for reuse];

i. the total usage of organic solvents (a)/(d); pigments (b)/(d); and chrome oxides (c)/(d), in pounds per hour (average); and

j. the total combined chrome oxide usage, lbs/hour, for emission units P001, P002, and P003.

(2) The permittee shall maintain annual records of the following information for this emissions unit:

a. the total amount of organic solvents employed, in tons;

b. the total amount of pigments employed, in tons; and

c. the total amount of cleanup materials lost, in gallons.

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Emissions Limitations:

Particulate emissions (PE) shall not exceed 4.03 pounds per hour and 1.5 TPY.

Particulate emissions of 10 microns or less (PM10) shall not exceed 3.43 pounds per hour and 1.3 TPY.

Applicable Compliance Method:

The emission limitations were determined using the following equations and AP42 emission factors (AP42 chapter 6 table 6.4.1, 5/83 reformatted 1/95) for PE. PM10 is assumed to be 85 % of PE. 50% control efficiency for covers.

<u>Hourly PE/PM10 Emission Limitations</u>

806 pounds of pigment/hour x 20 pounds of PE/ ton of pigment x (1-.50) x ton/2000 pounds = 4.03 pounds per hour PE.

4.03 pounds of PE/hour x 0.85 pound of PM10/pound of PE = 3.43 pounds of PM10/hour.

Annual PE/PM10 Emission Limitations

300 tons of pigment/year x 20 pounds of PE/ ton of pigment x (1-.50) x ton/2000 pounds = 1.5 tons per year PE.

1.5 tons of PE/year x 0.85 pound of PM10/pound of PE = 1.27 TPY PM10

(2) Emissions Limitations:

Organic Compound (OC) emissions shall not exceed 8.0 pounds per hour, 40.0 pounds per day and 3.8 TPY.

Applicable Compliance Method:

The emission limitations were determined using the following equations and AP42 emission factors (AP42 chapter 6 table 6.4.1, 5/83 reformatted 1/95) for for OC. 50% control efficiency for covers.

Hourly OC Emission Limitation

1067 pounds of solvent/hour x 30 pounds of OC/ ton of solvent x (1-.50) x ton/2000 pounds = 8.0 pounds per hour OC.

Daily OC Emission Limitation

1.7 tons of solvent/day x 30 pounds of OC/ ton of solvent x (1-.50) = 25.5 pounds per day OC.

2 gallons cleanup solvent/day x 7.25 pounds of OC/gallon of cleanup solvent = 14.5 pounds of OC per day.

25.5 pounds per day OC + 14.5 pounds per day OC = 40.0 pounds per day OC.

Annual OC Emissions Limitation

200 tons of solvent/year x 30 pounds of OC/ ton of solvent x (1-.50) x ton/2000 pounds = 1.5 tons per year OC.

625 gallons cleanup solvent/year x 7.25 pounds of OC/gallon of cleanup solvent x ton/2000 pounds = 2.26 tons of OC per year.

1.5 tons per year OC + 2.26 tons per year OC = 3.8 tons per year OC.

(3) Emissions Limitation:

Visible particulate emissions from any stack shall not exceed 10% opacity, as a six-minute average.

Applicable compliance method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60.

(4) Compliance with the hourly and daily solvent and cleanup material usage limitations in c)(1) and c)(3) respectively, shall be demonstrated by the recordkeeping in d)(1).

(5) Compliance with the hourly pigment usage limitation in c)(2) shall be demonstrated by the recordkeeping in d)(1).

(6) Compliance with the combined hourly chrome oxide usage limitation for emission units P001, P002 and P003 shall be demonstrated by the recordkeeping required in d)(1).

(7) Compliance with the annual solvent, pigment and cleanup material usage limitations in c)(1), c)(2), c)(3) respectively, shall be demonstrated by the recordkeeping in d)(2).

(8) Compliance with the cleanup material OC content limitation in b)(2)a. shall be demonstrated by the recordkeeping in d)(1).

g) Miscellaneous Requirements

(1) None.

3. P003, 10 HP UMCO Dissolver

Operations, Property and/or Equipment Description:

10 HP UMCO Dissolver

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05-(A)(3)	Organic Compound (OC) emissions shall not exceed 8.0 pounds per hour, 40.0 pounds per day and 3.8 TPY. Particulate emissions (PE) shall not exceed 4.03 pounds per hour and 1.5 TPY. Particulate emissions of 10 microns or less (PM10) shall not exceed 3.43 pounds per hour and 1.3 TPY. See b)(2)a. and c)(1) through c)(5). The requirements of this rule includes compliance with OAC rule 3745-17-07(A)(1).
b.	OAC rule 3745-31-05(D)	See Section B.2. through B.5.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity,

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		as a six-minute average.
d.	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. The organic compound (OC) content of the cleaning material used in this emissions unit shall not exceed 7.25 pounds per gallon as applied.

c) Operational Restrictions

(1) The amount of organic solvents excluding organic solvents in cleaning materials used in this emissions unit shall not exceed 1067 pounds per hour, 3400 pounds per day, and 200 tons per year.

(2) The amount of pigments used in this emissions unit shall not exceed 806 pounds per hour and 300 tons per year.

(3) The amount of cleanup materials lost while cleaning this emissions unit (equal to the amount of solvent used for cleanup minus the amount of solvent collected to be used again) shall not exceed 2 gallons per day and 625 gallons per year.

(4) The total combined amount of chrome oxides used in emissions units P001, P002 and P003 shall not exceed 12.7 pounds per hour.

(5) A tight fitting cover shall be employed on all material containers except during loading and unloading.

d) Monitoring and/or Recordkeeping Requirements

(1) This facility shall maintain daily records of the following information for this emissions unit:

a. the total amount of organic solvents employed, in pounds;

b. the total amount of pigments employed, in pounds;

c. the total amount of chrome oxides employed, in pounds;

d. the total hours of operation;

e. the OC content of each cleanup material employed, in lbs per gallon;

f. the total amount of cleanup materials employed, in gallons;

g. the total amount of cleanup materials collected for reuse, in gallons;

h. the amount of cleanup materials lost from cleaning operations calculated in accordance with the following equation:

cleanup materials lost (gallons) = [total gallons of cleanup material used] - [total gallons of cleanup material collected for reuse];

i. the total usage of organic solvents (a)/(d); pigments (b)/(d); and chrome oxides (c)/(d), in pounds per hour (average); and

j. the total combined chrome oxide usage, lbs/hour, for emission units P001, P002, and P003.

(2) The permittee shall maintain annual records of the following information for this emissions unit:

a. the total amount of organic solvents employed, in tons;

b. the total amount of pigments employed, in tons; and

c. the total amount of cleanup materials lost, in gallons.

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Emissions Limitations:

Particulate emissions (PE) shall not exceed 4.03 pounds per hour and 1.5 TPY.

Particulate emissions of 10 microns or less (PM10) shall not exceed 3.43 pounds per hour and 1.3 TPY.

Applicable Compliance Method:

The emission limitations were determined using the following equations and AP42 emission factors (AP42 chapter 6 table 6.4.1, 5/83 reformatted 1/95) for PE. PM10 is assumed to be 85 % of PE. 50% control efficiency for covers.

<u>Hourly PE/PM10 Emission Limitations</u>

806 pounds of pigment/hour x 20 pounds of PE/ ton of pigment x (1-.50) x ton/2000 pounds = 4.03 pounds per hour PE.

4.03 pounds of PE/hour x 0.85 pound of PM10/pound of PE = 3.43 pounds of PM10/hour.

Annual PE/PM10 Emission Limitations

300 tons of pigment/year x 20 pounds of PE/ ton of pigment x (1-.50) x ton/2000 pounds = 1.5 tons per year PE.

1.5 tons of PE/year x 0.85 pound of PM10/pound of PE = 1.27 TPY PM10

(2) Emissions Limitations:

Organic Compound (OC) emissions shall not exceed 8.0 pounds per hour, 40.0 pounds per day and 3.8 TPY.

Applicable Compliance Method:

The emission limitations were determined using the following equations and AP42 emission factors (AP42 chapter 6 table 6.4.1, 5/83 reformatted 1/95) for for OC. 50% control efficiency for covers.

Hourly OC Emission Limitation

1067 pounds of solvent/hour x 30 pounds of OC/ ton of solvent x (1-.50) x ton/2000 pounds = 8.0 pounds per hour OC.

Daily OC Emission Limitation

1.7 tons of solvent/day x 30 pounds of OC/ ton of solvent x (1-.50) = 25.5 pounds per day OC.

2 gallons cleanup solvent/day x 7.25 pounds of OC/gallon of cleanup solvent = 14.5 pounds of OC per day.

25.5 pounds per day OC + 14.5 pounds per day OC = 40.0 pounds per day OC.

Annual OC Emissions Limitation

200 tons of solvent/year x 30 pounds of OC/ ton of solvent x (1-.50) x ton/2000 pounds = 1.5 tons per year OC.

625 gallons cleanup solvent/year x 7.25 pounds of OC/gallon of cleanup solvent x ton/2000 pounds = 2.26 tons of OC per year.

1.5 tons per year OC + 2.26 tons per year OC = 3.8 tons per year OC.

(3) Emissions Limitation:

Visible particulate emissions from any stack shall not exceed 10% opacity, as a six-minute average.

Applicable compliance method:

If required, compliance with the visible emission limitation specified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60.

(4) Compliance with the hourly and daily solvent and cleanup material usage limitations in c)(1) and c)(3) respectively, shall be demonstrated by the recordkeeping in d)(1).

(5) Compliance with the hourly pigment usage limitation in c)(2) shall be demonstrated by the recordkeeping in d)(1).

(6) Compliance with the combined hourly chrome oxide usage limitation for emission units P001, P002 and P003 shall be demonstrated by the recordkeeping required in d)(1).

(7) Compliance with the annual solvent, pigment and cleanup material usage limitations in c)(1), c)(2), c)(3) respectively, shall be demonstrated by the recordkeeping in d)(2).

(8) Compliance with the cleanup material OC content limitation in b)(2)a. shall be demonstrated by the recordkeeping in d)(1).

g) Miscellaneous Requirements

(1) None.