State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
ASHTABULA COUNTY

Street Address: Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329 Mailing Address: Lazarus Gov. Center

Application No: 02-14232

DATE: 9/19/2000

Premix Inc
Louise Barton
PO Box 281 3365 East Center St
North Kingsville, OH 44068-0281

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA **NEDO**

FINAL PERMIT TO INSTALL 02-14232

Application Number:	02-14232
APS Premise Number:	0204000133
Permit Fee:	**$400**
Name of Facility:	Premix Inc
Person to Contact:	Louise Barton
Address:	PO Box 281 3365 East Center St North Kingsville, OH 44068-0281

Location of proposed air contaminant source(s) [emissions unit(s)]:
3365 East Center St
North Kingsville, Ohio

Description of proposed emissions unit(s):
Readco bulk mold compound (BMC) mixer 1 with a baghouse to control particulate emissions.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) 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 above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

i. The date, place (as defined in the permit), and time of sampling or measurements.

ii. The date(s) analyses were performed.

iii. The company or entity that performed the analyses.

iv. The analytical techniques or methods used.

v. The results of such analyses.

vi. The operating conditions existing at the time of sampling or measurement.

b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five 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 this permit. Such records may be maintained in computerized form.

c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written 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. See B.11 below if no deviations occurred during the quarter.

iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.
Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition

declared invalid.

6. General Requirements

a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

d. This permit does not convey any property rights of any sort, or any exclusive privilege.

e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit To Install fees within 30 days after the issuance of this Permit To Install.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.

iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit To Operate Application

a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

B. State Only Enforceable Permit To Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, 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 appropriate Ohio EPA District Office or local air agency. 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.)

3. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

4. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

5. Termination of Permit To Install

This permit to install shall terminate within eighteen months of the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. 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.

6. Construction of New Sources(s)

The proposed emissions unit(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 emissions unit(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 OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not 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 prove to be inadequate or cannot meet applicable standards.

7. 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.

8. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

9. 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.

10. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit To Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

11. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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.

C. Permit To Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons Per Year
PE	0.75
OC	6.20

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None.

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P100 - Readco bulk mold compound (BMC) mixer 1 with a baghouse to control particulate emissions	OAC rule 3745-17-07(A)	Visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 6-minute average.
	OAC rule 3745-17-11	Particulate emissions (PE) shall not exceed 2.78 lbs/hr. See section A.I.2.a. below.
	OAC rule 3745-21-07(G)(2)	Organic compound (OC) emissions shall not exceed 8 lbs/hr and 40 lbs/day, excluding emissions from non-photochemically reactive materials. See sections A.I.2.a., A.I.2.b. and A.I.2.c. below.
	OAC rule 3745-31-05(A)(3)	PE shall not exceed 0.17 lb/hr and 0.75 ton/year. OC emissions shall not exceed 1.0 lb/hr and 24 lbs/day, excluding emissions from the cleanup materials. OC emissions shall not exceed 34 lbs/day and 6.20 tons/yr, including emissions from the cleanup materials.

2. Additional Terms and Conditions

2.a The emissions limit based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

2.b The emissions of organic materials from the production operation consist of styrene, a photochemically reactive material as defined in OAC rule 3745-21-01(C)(5).

2.c Only non-photochemically reactive cleanup materials shall be employed.

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each day for this emissions unit:

a. The company identification for each production material and each cleanup material employed.

b. An identification of whether or not each cleanup material employed is a photochemically reactive material.

c. The weight of each production material employed, in pounds.

d. The styrene content of each production material employed, in percent by weight.

e. The styrene throughput of all production materials, in pounds.

f. The total organic compound emission rate for all production materials, in pounds.

g. The actual number of hours that the emissions unit was in operation.

h. The average hourly organic compound emission rate for all production materials, i.e., (f) divided by (g), in pounds per hour (average).

i. The weight of each cleanup material dispensed, in pounds.

j. The weight of each cleanup material returned, in pounds.

k. The total organic compound emission rate for all cleanup materials, in pounds.

l. The total organic compound emission rate for all production materials and all cleanup materials, in pounds per day.

2. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a once per shift basis.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:

   a. An identification of each day during which the average hourly OC emissions from the production materials exceeded 1.0 pound per hour, and the actual average hourly OC emissions for each such day.

   b. An identification of each day during which the OC emissions from the production materials exceeded 24 pounds per day, and the actual OC emissions for each such day.

   c. An identification of each day during which the OC emissions from the production materials and the cleanup materials exceeded 34 pounds per day, and the actual OC emissions for each such day.

   e. An identification of each day during which any photochemically reactive cleanup materials were employed.

   f. An identification of each day during which the pressure drop across the baghouse did not comply with the allowable range specified in section A.II.2., and the actual pressure drops and periods of time for each such day.

2. The permittee shall submit annual reports which specify the total OC emissions and particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year.

V. Testing Requirements

1. Compliance with the allowable emission limitations in section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:

   a. Emission Limitation: 20% opacity of visible particulate emissions.

   Applicable Compliance Method: Compliance shall be determined based upon OAC rule 3745-17-03(B)(1).

   b. Emission Limitation: 0.17 lb PE/hr.

   Applicable Compliance Method(s): To determine the actual worst case PE rate, the following equation shall be used:

   EPE(lbs/hr) = DSC x EF x (1 - CE).

   where:
   EPE(lbs/hr) = maximum hourly PE rate, in pounds per hour.

DSC = the maximum, dry solids usage rate of the raw material, which is 1,120 pounds per hour, as noted in the application.

EF = the emission factor for particulate emissions, which is 0.01 pound of uncontrolled PE per pound of available particulate matter content, as noted in AP-42 chapter 6.4 (5/83).

CE = control efficiency of PE control device, 0.99 pounds of controlled PE per pound of uncontrolled PE, as specified in an application for PTI 02-14232.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

c. Emission Limitation: 0.75 TPY PE from production operations.

Applicable Compliance Method: To determine the actual worst case rate for PE, the actual, hourly, worst case emission rate as determined in section A.V.1.b. shall be multiplied by 8760 hrs/yr and divided by 2000 lbs/ton.

d. Emission Limitation: 1.0 lb OC/hr, excluding emissions from cleanup materials.

Applicable Compliance Method: Compliance shall be demonstrated in accordance with the record keeping requirements specified in section A.III.1.h. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Method 18, 25 or 25A, as appropriate.

e. Emission Limitation: 24 lbs OC/day, excluding emissions from the cleanup materials.

Applicable Compliance Method: Compliance shall be based on the following:

i. Determination of available styrene in the production materials:

AS(lbs/day) = Summation of (Pi x SCi).

where:
AS(lbs/day) = the available styrene, also the styrene throughput, in pounds per day.

Pi = the production rate of material i, in pounds per day.

SCi = the styrene content of material i, in pounds of available styrene per pound of production material.

ii. Determination of organic compound emissions from production operations:

ES(lbs/day) = AS x EF.

where:
ES(lbs/day) = the organic compound emissions as styrene from production operations, in pounds per day.

EF = emission factor for styrene emissions from closed BMC mixers, which is 0.001 pounds per pound of available styrene, as determined from engineering estimates.

f. Emission Limitation: 34 lbs OC/day, including emissions from cleanup materials.

Applicable Compliance Method: Compliance shall be determined based upon the following:

i. Determination of daily emissions from cleanup operations, EC(lbs/day), shall be made in accordance with the following method(s):

EC(lbs/day) = Summation of [(WC/OUT - WC/IN)i

where:
EC(lbs/day) = the organic compound emissions from cleanup operations, in pounds per day.

WC/OUTi = weight of cleanup material i dispensed to work stations, in pounds per day.

WC/INi = weight of cleanup material i returned to solvent dispensing area, in pounds per

day.

ii. Determination of daily emissions from all operations, EOC(lbs/day), shall be determined in accordance with the following method(s):

EOC(lbs/day) = ES(lbs/day) + EC(lbs/day).

where:
ES(lbs/day) = the organic compound emissions as styrene from production operations, in pounds per day, as specified in section A.V.1.e.

g. Emission Limitation: 6.20 TPY OC, including emissions from cleanup materials.

Applicable Compliance Method: To determine annual OC emissions from all materials, compliance shall be based on the sum of the daily OC emission rates from production materials and cleanup materials, EOC(lbs/day), as specified in section A.V.1.f. of this permit for the calendar year, divided by 2000 pounds/ton.

2. Any determination of organic compound content (percent by weight), solids content, or density of a material shall be based on the material as employed, including the addition of any thinner or viscosity reducer to the material. The permittee shall determine the composition of the material by formulation data supplied by the manufacturer or from data determined by an analysis of each material, as received, by U.S. EPA Reference Method 24 as referenced in 40 CFR Part 60, Appendix A. If formulation data is employed, the Ohio EPA may require the permittee to have a Reference Method 24 analysis or an equivalent, alternative method (as approved by Ohio EPA) performed on the material(s).

VI. Miscellaneous Requirements

None.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P100 - Readco bulk mold compound (BMC) mixer 1 with a baghouse to control particulate emissions		See sections B.VI.1. to B.VI.3. of these terms and conditions.

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

   a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

   b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

   c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

1. The permit to install for this emissions unit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Emission Unit(s) ID	Pollutant	Threshold Limit Value (TLV) ($\mu g/m^3$)	Maxi-mum Hourly Emission Rate (lbs/hr)	Predicted 1 Hour Maximum Ground Level Concen-tration ($\mu g/m^3$)	Maximum Acceptable Ground Level Concentration (MAGLC), ($\mu g/m^3$)
P100	Styrene	85,000	1.0	31.68	2,024
P100	Ethyl acetate	1,441,308	0.42	13.20	34,317

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

   a. changes in the composition of the materials used (typically for coatings or cleanup

materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

3. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

Emissions Unit ID: P100

NEW SOURCE REVIEW FORM B

PTI Number: 02-14232 Facility ID: 0204000133

FACILITY NAME Premix Inc

FACILITY DESCRIPTION fiberglass reinforced plastics manufacturing — Readco bulk mold compound (BMC) mixer 1 with a baghouse to control particulate emissions — CITY/TWP North Kingsville

SIC CODE 3089 SCC CODE 3-08-007-99 EMISSIONS UNIT ID P100

EMISSIONS UNIT DESCRIPTION Readco bulk mold compound (BMC) mixer 1 with a baghouse to control particulate emissions

DATE INSTALLED 10/00

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment	0.056 lb/hr	0.11	0.17 lb/hr	0.75
PM_{10}	unclassified				
Sulfur Dioxide	attainment				
OC - production (w/out cleanup)	attainment	0.50 lb/hr 8 lbs/day		1.0 lb/hr 24 lbs/day	
OC - production with cleanup	attainment	18 lbs/day	3.28	34 lbs/day	6.20
Nitrogen Oxides	attainment				
Carbon Monoxide	atttainment				
Lead	attainment				
Air Toxic: styrene	unclassified	0.50 lb/hr 8 lbs/day		1.0 lb/hr 24 lbs/day	4.38
Air Toxic: ethyl acetate	unclassified	10 lbs/day		10 lbs/day	1.82

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination 20% opacity on visible PE, since many other emissions units vent to same baghouse, which currently has 20% opacity requirement. Use of dust control device, which is implied by baghouse ΔP monitoring requirement. 0.17 lb PE/hr = 150% of MPTE,controlled for a conservative estimate. Use of non-photochemically reactive cleanup materials. 10 lbs OC/day for cleanup was determined from applicants records for similar unit. 1.0 lb OC/hr = PWR_max x Styrene_max x EF. (Similar to P027 in PTI 02-11793.)

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes.

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? $NA.

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaiminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? X YES ____ NO

Emissions Unit ID: P100

NEW SOURCE REVIEW FORM B

PTI Number: 02-14232 Facility ID: 0204000133

FACILITY NAME Premix Inc

FACILITY DESCRIPTION fiberglass reinforced plastics manufacturing	Readco bulk mold compound (BMC) mixer 1 with a baghouse to control particulate emissions	CITY/TWP	North Kingsville

IDENTIFY THE AIR CONTAMINANTS: Styrene & ethyl acetate; see pp. A1-A6.

NEW SOURCE REVIEW FORM B

PTI Number: 02-14232 Facility ID: 0204000133

FACILITY NAME Premix Inc

FACILITY DESCRIPTION	Readco bulk mold compound (BMC) mixer 1 with a baghouse to control particulate emissions	CITY/TWP	North Kingsville
fiberglass reinforced plastics manufacturing			

Ohio EPA Permit to Install Information Form

Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit hard copy items to **Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to **airpti@epa.state.oh.us**

Please fill out the following. If the checkbox does not work, replace it with an 'X'	Electronic	**Additional information** File Name Convention (your PTI # plus this letter)	Hard Copy	None
Calculations (required)	☐	000000**c**.wpd	☒	
Modeling form/results	☐	0000000**s**.wpd	☒	☐
PTI Application (complete or partial)*	☐	0000000**a**.wpd	☐	☐
BAT Study	☐	0000000**b.**wpd	☐	☐
Other/misc.	☐	0000000**t**.wpd	☐	☐

* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

NONE

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

☐ **Synthetic Minor Determination and/or** ☐ **Netting Determination**

Permit To Install **ENTER PTI NUMBER HERE**

A. Source Description

B. Facility Emissions and Attainment Status

C. Source Emissions

D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

Emissions Unit ID: P100

NEW SOURCE REVIEW FORM B

PTI Number: 02-14232 Facility ID: 0204000133

FACILITY NAME Premix Inc

FACILITY DESCRIPTION fiberglass reinforced plastics manufacturing	Readco bulk mold compound (BMC) mixer 1 with a baghouse to control particulate emissions	CITY/TWP	North Kingsville

SUMMARY (for informational purposes only)

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons Per Year
PE	0.75
OC	6.20