

## Eco Mark Product Category No. 126

### **“Paint Version 2.3” Certification Criteria J. Automotive Refinish Paint**

Japan Environment Association  
Eco Mark Office

#### **1. Applicable Scope**

Automotive refinish paint (including the type of paint which is used by diluting at the coating site). However, spray (aerosol) types shall be excluded.

#### **2. Certification Criteria and Certification Procedure**

General principle: The manufacturer shall submit the document (a copy of ISO9001 certificate) to the effect that the material is purchased in conformity to the provisions of ISO9001-2000 7.4.1 Purchasing Process, or for the equivalent content, the manufacturer shall submit the certificate to the effect that; a. the manufacturer shall ensure that purchased product conforms to the matters prescribed in the present certification criteria; b. the manufacturer shall evaluate and select suppliers based on their ability to supply product in accordance with the applicant's requirements; and c. criteria for selection, evaluation and re-evaluation have been established.

##### **2-1. Common Environmental Criteria and Certification Procedure**

- (1) As product formulation ingredients, no aromatic hydrocarbon-based solvents (toluene, xylene, styrene, ethyl benzene or benzene) shall have been added in 10 (ten) grams or more per liter.

In the case of multiple components-type paints, the mixed product shall conform to this criterion.

In the case of type of paint which is used by diluting at the coating site, the product diluted in accordance with the manufacturer recommendations for solvents and dilution ratio shall conform to this criterion.

This criterion shall not apply to putty or auto-body filler.

- (2) VOC components (boiling point range: 23-260°C) are not added in the paint as the formulation ingredients more than the numerical value of Table 1.

**Table 1 Ratio of VOC components in paints**

Product type		Ratio of VOC components(*)
Putty, auto-body filler		250 g/liter or less
Primer	Surfacer, primer, filler	540 g/liter or less
	Wash primer	780 g/liter or less
Topcoat		420 g/liter or less

\* g/l of ready for use (RFU) product. Any water content of the product RFU should be discounted.

[Certification procedure for (1) and (2)]

Submit the paint ingredient table (entry table A) issued by the paint manufacturing business or test results provided in ISO11890-1 or ISO11890-2. In the event that there is an allowance in the addition rate of aromatic hydrocarbon solvent and VOC, submit the data of the maximum value.

With respect to multiple component-type paints and paints which are diluted at the coating site, state the contents of aromatic hydrocarbon-based solvents and VOCs before mixing, and submit the contents table of the mixed liquid by computation from the mixing ratio. In the event the mixing ratio is not accurately known (such as if it says “use 0.1 to 0.2 of hardening agent against 1 of main product” or “adjust mixing ratio according to temperature”), submit the ingredient table of the mixed liquid by computation using the mixing ratio that gives the highest contents of aromatic hydrocarbon-based solvents and VOCs.

For the types of paints which are used by diluting at the coating site, submit the indicated portion of the operating instructions, product labels, or brochures which state the manufacturer’s recommended solvents and dilution rate, such as “when the manufacturer’s recommended solvent is used, this paint is designed to be coated at the dilution rate of ○○%. Use by observing the dilution rate.”

- (3) The preservatives (including antifungal agent) contained in the product shall be less than 0.5% of the total product weight.

[Certification procedure]

Enter in the attached certificate whether or not the preservatives are added. In addition, submit MSDS and CAS registration No. of the preservatives.

- (4) As the formulation ingredients of the product, chemical substances shown in Table 2 shall not be added.

**Table 2 Chemical substances whose use is restricted in paints**

Cadmium	Triphenyltin
Mercury	Alkylphenol
Hexavalent chromium	Nonyl phenol
Lead	4-octylphenol
Arsenic	Formaldehyde
Antimony	Tetradecane
Tributyltin	

[Certification procedure]

Submit the list which stipulates the addition or no-addition of applicable substances.

- (5) Products shall be free of any use of specified chlorofluorocarbon (CFC5s) set forth in Table 3 as halogenated hydrocarbons, other CFCs, carbon tetrachloride, trichloroethane and alternatives for chlorofluorocarbon (in this event, hydrochlorofluorocarbon)

[Certification procedure]

Submit the certificate issued by a director of the plant that manufactures the products stating the use or no-use of the applicable substance.

**Table 3 Halogenated hydrocarbons whose use is restricted**

CFC5s	Trichlorofluoromethane	Dichlorotetrafluoroethane
	Dichlorodifluoromethane	Chloropentafluoroethane
	Trichlorotrifluoroethane	
Other CFCs	Chlorotrifluoromethane	Pentachlorotrifluoropropane
	Pentachlorofluoromethane	Tetrachlorotetrafluoropropane
	Tetrachlorodifluoroethane	Trichloropentafluoropropane
	Heptachlorofluoropropane	Dichlorohexafluoropropane
	Hexachlorodifluoropropane	Chloroheptafluoropropane
	Carbon Tetrachloride	
	1,1,1-Trichloroethane	
HCFC	Dichlorofluoromethane	Dichloropentafluoropropane
	Chlorodifluoromethane	Chlorohexafluoropropane

Chlorofluoroethane	Pentachlorofluoropropane
Tetrachlorofluoroethane	Tetrachlorodifluoropropane
Trichlorodifluoroethane	Trichlorotrifluoropropane
Dichlorotrifluoroethane	Dichlorotetrafluoropropane
Chlorotetrafluoroethane	Chloropentafluoropropane
Trichlorofluoroethane	Tetrachlorofluoropropane
Dichlorodifluoroethane	Trichlorodifluoropropane
Chlorotrifluoroethane	Dichlorotrifluoropropane
Dichlorofluoroethane	Chlorotetrafluoropropane
Chlorodifluoroethane	Trichlorofluoropropane
Chlorofluoroethane	Dichlorodifluoropropane
Hexachlorofluoropropane	Chlorotrifluoropropane
Pentachlorodifluoropropane	Dichlorofluoropropane
Tetrachlorotrifluoropropane	Chlorodifluoropropane
Trichlorotetrafluoropropane	Chlorofluoropropane

- (6) In the event that the product has the first-class designated chemical substance in “Law concerning Reporting, etc. of Releases to the Environment of Specific Chemical Substances and Promoting Improvements in Their Management (PRTR Law)” added as a formulation ingredients, report to the effect.

[Certification procedure]

Submit a list that stipulates addition or no-addition of the applicable substance.

- (7) In manufacturing the applied product, related environmental laws and regulations and pollution control agreement (hereinafter referred to as the “Environmental Laws, etc.”) must be followed with respect to air pollution, water contamination, noise, offensive odor, and emission of hazardous substances in the area where the plant performing the final manufacturing process is located.

In addition, the state of compliance with the Environmental Laws, etc. for the past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall have been already taken, and the related Environmental Laws, etc. must thereafter be followed appropriately.

In addition, the state of compliance with the Environmental Laws, etc. for the past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall have been already taken, and the related Environmental Laws, etc. must thereafter be followed appropriately. [Certification procedure] With respect to the compliance with the Environmental Laws, etc. in the area where the plant performing the final manufacturing process is located, a certificate issued by the representative of the business of manufacturing the

applied product or the relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past five years, including a violation subject to administrative punishment or administrative guidance, and if there is, the following documents in a and b must be submitted:

a. With respect to the fact of violation, guidance documents from administrative agencies (including order of correction and warning) and copies of written answers (including those reporting causes and results of correction) to such documents (clearly indicating a series of communication);

b. Following materials (copies of recording documents, etc.) concerning the management system for compliance with the Environmental Laws, etc. in 1)-5):

- 1) List of the Environmental Laws, etc. related to the area where the plant is located;
- 2) Implementation system (organizational chart with roles, etc.);
- 3) Bylaws stipulating retention of recording documents;
- 4) Recurrence prevention measures (future preventive measures);
- 5) State of implementation based on recurrence prevention measures (result of checking of the state of compliance, including the result of onsite inspection).

- (8) The Company shall strictly abide by provisions of laws concerning handling of chemical substances, such as “Poisonous and Deleterious Substances Control Law” and “Law Concerning the Examination and Regulation of Manufacture etc. of Chemical Substances”.

[Certification procedure]

Submit a certificate issued by a director of the plant where the product is manufactured or by the applicant, stating that the above-mentioned laws have been duly observed and not violated. The above-mentioned Japanese laws shall also apply to products manufactured outside Japan.

- (9) As the information on proper handling of paints, precautions for handling and storage shall be clearly manifested in MSDS, and operating instructions, product labels, or brochures.

[Certification procedure]

Submit MSDS concerning handling and storage precautions of the applicable paints, and operating instructions, product labels, or brochures.

- (10) Containers shall meet either one of the following conditions.
- a. Containers shall be returnable.
  - b. Containers shall be lead-free metal cans of recyclable design.
  - c. Containers are collected and recycled. Or, guidance or indication in manual of

appropriate disposal and treatment after use is conducted.

[Certification procedure]

- a. Submit a document that explains the returnable system.
- b. State in the attached certificate that the container is a lead-free metal can.
- c. Submit a document that explains the collection/recycling system. Or describe how guidance or indication in manual of appropriate disposal and treatment after use is conducted

## 2-2 Quality Criteria

- (11) The product quality shall be fully controlled in the manufacturing process. Items for which measurement methods are prescribed in JIS standards shall be measured by the prescribed measurement methods.

[Certification procedure]

Submit a certificate that the product conforms to the applicable quality standard. In addition, submit a certificate issued by a director of the plant where the product is manufactured, stating that quality control is fully practiced in the production process and the plant has not violated any of the regulations, etc.

In the event that there is no JIS standard which is applicable to the product, submit the performance certificate based on the in-house standard.

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The Certification Criteria for the Product Category will be revised when necessary.