

Anti-Corrosive Paints (GC-03)

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1. Scope

This criteria document establishes environmental requirements for anti-corrosive paints.

2. Definitions

For the purposes of this criteria document, the following definitions apply:

- a. Anti-corrosive Paints: Coatings formulated and recommended for use in preventing the corrosion of ferrous metal substrates.

3. Product Specific Performance Requirements

- a. Adhesion: the product shall demonstrate a minimum of Classification 2B according to ASTM D3359-90 Method B.
- b. Hiding Power (Opacity). The product shall demonstrate a minimum 0.95 contrast ratio at 400 square feet per gallon as determined by ASTM D2805-88. A white paint shall be used.
- c. Corrosion Resistance. [Reserved]
The salt-fog test, the traditional method for measuring corrosion resistance, has many limitations. As a result, the paint industry is in the process of developing alternatives via the ASTM and other processes. Green Seal believes it is inappropriate to adopt a corrosion resistance performance test before the industry has reached consensus on appropriate test protocols. While many tests are currently in use by various manufacturers, none has gained widespread acceptance. Green Seal will modify the criteria document when an appropriate protocol is developed.

4. Product-Specific Environmental Requirements.

- a. Chemical Component Limitations — VOC: the manufacturer shall demonstrate that the paint is not formulated to exceed the VOC concentrations (in grams per liter of product, minus water) listed below:

Coating Type: Gloss — 250
Semi-Gloss — 250
Flat — 250

- b. The calculation of VOCs shall exclude water and tinting color added at the point of sale.
- c. Chemical Component Limitations — Aromatic Compounds: the product must contain no more than 1.0% by weight of the sum total of aromatic compounds. Testing for the concentration of these compounds will be performed if they are determined to be present in the product during a materials audit.
- d. Chemical Component Limitations — Other: the manufacturer shall demonstrate that the following chemical compounds are not used as ingredients in the product beyond incidental contamination:
 - i. Halomethanes: methylene chloride
 - ii. Chlorinated ethanes: 1,1,1-trichloroethane
 - iii. Aromatic solvents: benzene, toluene (methylbenzene), ethylbenzene
 - iv. Chlorinated ethylenes: vinyl chloride
 - v. Polynuclear aromatics: naphthalene
 - vii. Chlorobenzenes: 1,2-dichlorobenzene
 - viii. Phthalate esters: di (2-ethylhexyl) phthalate, butyl benzyl phthalate, di-n-butyl phthalate, di-n-octyl phthalate, diethyl phthalate, dimethyl phthalate
 - xi. Miscellaneous semi-volatile organics: isophorone
 - xii. Metals and their compounds: antimony, cadmium, hexavalent chromium, lead, mercury
 - xiv. Preservatives (antifouling agents): formaldehyde
 - xv. Ketones: methyl ethyl ketone, methyl isobutyl ketone
 - xvi. Miscellaneous volatile organics: acrolein, acrylonitrile

5. Packaging Requirements.

The manufacturer shall demonstrate that paint cans and their components are not fabricated with lead.

6. Labeling Requirements

- a. The Green Seal Certification Mark must appear on the product's packaging.
- b. The Green Seal Mark shall not be used in conjunction with any modifying terms, phrases, or graphic images that might mislead consumers as to the extent or nature of the certification.

- c. Whenever the Certification Mark appears on a package or product, the product or package must contain a description of the basis for certification. The description shall be in a location, style, and typeface that are easily readable by the consumer. Unless otherwise approved in writing by Green Seal, the description shall read as follows:

"This product meets Green Seal Environmental Criteria for anti-corrosive paints. Product does not exceed 250 g/l volatile organic compounds (VOCs), which can contribute to air pollution. Product does not contain certain toxic chemicals found in similar paints."

- d. Paints which have been formulated without VOCs shall be designated Class A and may contain a special designation to that effect on the label.