

| Category | Green Seal GS-11 (May 1993) | Green Seal GC-3 (Jan 1997) | Green Seal GS-11 (May 2008) |
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| Scope/Product Categories | Paints. Does not include stains, clear finishes or paints sold in aerosol cans | Anti-corrosive Paints. | Paints and coatings. Includes wall, anti-corrosive, and reflective coatings, floor paints and primers and undercoats. Does not include stains, clear finishes, recycled latex paint, specialty (automotive, marine, industrial) coatings or paint sold in aerosol cans |
| Product Performance Testing | <p>Interior Topcoats- Scrubbability ASTM D2486 100 cycles, Hiding Power ASTM D2805 0.95 contrast ratio at 400 sq ft/gallon on untinted white paint with 80% reflectance, Washability ASTM D4828 5 rating for flat and 7 rating for non-flat</p> <p>Exterior Topcoats- Hiding Power ASTM D2805 0.95 contrast ratio at 400 sq ft/gallon on untinted white paint with 80% reflectance</p> | <p>Adhesion ASTM D3359 min 2B, Hiding Power ASTM D2805 0.95 contrast ratio at 400 sq ft/gallon on white paint, Corrosion Resistance [reserved] no consensus on test method at time of std issuance</p> | <p>Paints and Coatings- Adhesion minimum 50% or better for wet/dry adhesion over intended substrate ASTM D3359, concrete 200psi failure in concrete ASTM D7234, Applicability (Flow and Leveling) min 6 rating for foaming, leveling and spatter resistance ASTM D7073 or 12-14 min drawdown ASTM D4400 and floor paints min 7 rating ASTM D4062, Hiding Power min 0.95 contrast ratio at 400 sq ft per gallon Anti-corrosive (incl. Adhesion, Applicability and Hiding Power)- Corrosion Resistance min rust rating of 9 per SSPC-VIS 2 after 300 hrs of exposure as determined by ASTM D5894, Floor paints (incl. Paints and Coatings) Alkali Resistance no signs of wrinkling, disintegration or more than a slight color change after 16 hours exposure to 0.5N sodium hydroxide solution by spot</p> |

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| | | | <p>test ASTM D1308, Scrubability using C-17 wheel and 50 g weight wear index of 200 or less ASTM D4060, Interior Topcoats (incl. Adhesion, Applicability and Hiding Power)-Scrubability with shim 400 scrub cycles per Leneta P121-C, Washability 5 min rating for flat, 7 min rating for non-flat, Exterior Topcoats (incl. Adhesion, Applicability and Hiding Power)-Fade Resistance 4 oz of red iron oxide pigment min durability total color change of $\Delta E < 5$ of 1000 hrs using QUV-A bulbs with moisture and/or condensation cycle ASTM G151, Flexibility no signs of cracking, peeling or loss of adhesion ASTM D522 with the curing of 3 days air dry followed by 1 week at 50C, Water Resistance no signs of washing off, lifting or wrinkling ASTM D1735, Non-Elastomeric Wall Coatings (incl. Adhesion, Applicability and Hiding Power)-Accelerated Weathering no signs of blistering, chalking, checking, cracking, flaking or loss of adhesion with max change of 10 gloss level units after 500 hrs using QUV-A bulb ASTM D714, Flexibility no signs of cracking, peeling or loss</p> |

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| | | | of adhesion ASTM D522 with the curing of 3 days air dry followed by 1 week at 50C, Solar Reflectance ASTM C1549 or ASTM E1918 light tones ≥ 0.65 dark tones ≥ 0.4 , Thermal Emittance 75% or more ASTM C1371, Elastomeric Wall coatings- Accelerated Weathering no signs of cracking or checking after 1000 hrs ASTM G155, Elongation or Tensile Strength min 100% elongation and min 200 psi tensile strength ASTM D2370, Flexibility $\frac{1}{2}$ mandrel bend at -15F ASTM D522 with the curing of 3 days air dry followed by 1 week at 50C, Fungi Resistance zero rating ASTM G21, Solar Reflectance & Thermal Emittance (same as Non-Elastomeric Wall Coatings), Reflective Wall Coatings-Physical properties ASTM D6083, Solar Reflectance ASTM C1549 or ASTM E1918 low-slope initial ≥ 0.65 maintenance 3 years ≥ 0.50 , steep-slope initial ≥ 0.25 , maintenance 3 years ≥ 0.15 , Thermal Emittance 80% or more ASTM C1371 |
| VOC definition | 40 CFR 51.100 | 40 CFR 51.100 | 40 CFR 51.100 and less than or equal to 280°C |
| VOC method | EPA Method 24 | EPA Method 24 | ASTM D6886 or ISO 11890-Part 2 using 280°C |

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| VOC Limit | Interior Flat 50 g/L Non-flat 150 g/L Exterior Flat 100 g/L Non-flat 200 g/L | Anti-corrosive Paints Gloss 250 g/L Semi-gloss 250 g/L Flat 250 g/L | Flat 50 g/L Non-flat 100 g/L Floor 100 g/L Reflective wall 50 g/L Reflective roof 100 g/L Anti-corrosive 250 g/L Including colorant added at the point-of-sale (effective Jan 1, 2010) Flat 100 g/L Non-flat 150 g/L Floor 150 g/L Reflective wall 100 g/L Reflective roof 150 g/L Anti-corrosive 300 g/L |
| Aromatic Limit | Sum total no more than 1% by weight Aromatic cmpds defined as hydrocarbon cmpds containing one or more 6- carbon benzene rings. | Sum total no more than 1% by weight Aromatic cmpds defined as hydrocarbon cmpds containing one or more 6-carbon benzene rings. | Sum total no more than 0.5% by weight Volatile aromatic cmpds defined as hydrocarbon cmpds containing one or more 6-carbon benzene rings with a boiling point >280°C |
| Chemical Prohibitions | 25 prohibited chemicals: methylene chloride, 1,1,1- trichloroethane, benzene, toluene, ethylbenzene, vinyl chloride, naphthalene, 1,2- dichlorobenzene, di(2- ethylhexyl)phthalate, butyl benzyl phthalate, di-n-butyl phthalate, di-n-octyl phthalate, diethyl phthalate, dimethyl phthalate, isophorone, antimony, cadmium, hexavalent chromium, lead, mercury, formaldehyde, methyl ethyl ketone, methyl isobutyl ketone, acrolein, acrylonitrile | 25 prohibited chemicals: methylene chloride, 1,1,1-trichloroethane, benzene, toluene, ethylbenzene, vinyl chloride, naphthalene, 1,2-dichlorobenzene, di(2- ethylhexyl)phthalate, butyl benzyl phthalate, di-n-butyl phthalate, di- n-octyl phthalate, diethyl phthalate, dimethyl phthalate, isophorone, antimony, cadmium, hexavalent chromium, lead, mercury, formaldehyde, | Prohibited lists: Carcinogens, Mutagens, Reproductive Toxins, Hazardous Air Pollutants or Ozone-depleting Chemicals Specific Compounds: 1,2-dichlorobenzene APEs Formaldehyde-donors Heavy metals Phthalates Triphenyl tins and tributyl tins |

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| | | methyl ethyl ketone, methyl isobutyl ketone, acrolein, acrylonitrile | |
| Packaging | Paint cans and components not fabricated with lead | Paint cans and components not fabricated with lead | Packaging shall have a minimum of 20% recovered material content. Exception for packaging that can be recycled as part of a manufacturer take-back program. Heavy metal prohibited not intentionally introduced and <0.01% by weight an exemption for recovered materials. Phthalates prohibited not intentionally introduced an exemption for recovered materials |
| End-of-Life Management | Not specifically mentioned | Not specifically mentioned | Manufacturer must provide consumer information by print, online or other accessible media regarding purchasing the appropriate amount of product needed for a specified job. Instructions for adequate ventilation during paint application and drying period. Instructions on proper use of product, Statement encouraging consultation with local authorities for disposal or recycling opportunities for leftover product and packaging. If take-back program offered details on returning product and packaging. Leftover paint from manufacturing product should be utilized locally or |

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| | | | domestically where markets exist. |
| Labeling | Discourage disposal down drains and encourage consultation with local authorities for disposal or recycling opportunities | Not specifically mentioned | Include a statement encouraging consultation with local authorities for proper disposal or recycling opportunities for leftover product and packaging. Shall include instructions or reference to consumer education by print, online or other accessible media for instructions of proper purchasing, adequate ventilation during drying time, and proper use of the product. If take-back program offered, details on returning product and packaging. |