

# Architectural Paints



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## ARCHITECTURAL PAINTS

Architectural paint (paint used in and on buildings) is used everywhere and serves several important functional and aesthetic purposes. But it has the potential to cause both health and environmental impacts. High levels of exposure to some of the elements in paint can cause kidney or liver damage or even respiratory problems. Carcinogenic substances like formaldehyde and benzene, and human/ecosystem toxins like heavy metals and phthalates are found in some paints. However, there are architectural paints available that do not pose health or ecosystem problems and still meet the price and performance standards required in a quality product. Here are some guidelines to help you select these preferable paints.

### **Choose Water-Based Paints**

Paint products are generally classified as water-based (latex) or oil-based (alkyd), depending on the type of carrier used to impart application and drying characteristics to the product. Latex paints now meet or exceed the performance of oil-based paints and are preferable because they use water as a carrier while alkyd paints generally use

volatile solvents as carriers. Alkyd paints also require harmful solvents for cleaning up upon job completion.

### **Look for Low or No Volatile Organic Compounds (VOCs)**

The presence of VOCs in paint can often be detected by their strong odor. Low odor paints will generally have lower VOCs, while a quick drying paint will generally be higher in VOCs. All the paints on the recommended list meet these maximum VOC levels allowed by the Green Seal standard.

Maximum Acceptable VOC Level Grams/Liter (lbs/gal)		
PAINT TYPE	INTERIOR	EXTERIOR
Flat	50 (0.42)	100 (0.83)
NonFlat	150 (1.25)	200 (1.66)

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## Select Paints Without Heavy Metals or Toxic Ingredients

There are various compounds that should be restricted from your paint selection and can be replaced by less harmful ingredients without a loss of quality. Green Seal will not recommend an interior or exterior paint that contains any of the following heavy metals or toxic ingredients.

PROHIBITED INGREDIENTS
<i>Heavy Metals</i>
<i>Antimony</i>
<i>Cadmium</i>
<i>Hexavalent chromium</i>
<i>Lead</i>
<i>Mercury</i>
<i>Toxic Organic Substances</i>
<i>Acrolein</i>
<i>Acrylonitrile</i>
<i>Benzene</i>
<i>1,2-dichlorobenzene</i>
<i>Ethylbenzene</i>
<i>Butyl benzyl phthalate</i>
<i>Formaldehyde</i>
<i>Isophorone</i>
<i>Methylene chloride</i>
<i>Methyl ethyl ketone</i>
<i>Methyl isobutyl ketone</i>
<i>Naphthalene</i>
<i>Phthalate esters</i>
<i>1,1,1-trichloroethane</i>
<i>Toluene</i>
<i>Vinyl chloride</i>

## Recommended EPP Specifications

Listed below are performance and environmental paint specifications Green Seal uses to identify

environmentally preferred (EP) paints. These same specifications could be used in company or government contract language to ensure procurement of EP paints.

## Product Specific Performance Requirements

- Interior Topcoats.** Products intended for interior opaque topcoat use shall meet the following requirements:
  - Scrubability (Abrasion Resistance).** The product shall demonstrate at least 100 cycles (200 separate strokes) before failure, as determined by American Society for Testing and Materials (ASTM) D2486-89.
  - 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. Compliance will be determined by testing a white paint having a minimum 80 percent reflectance.
  - Washability (Stain Removal).** The product shall demonstrate the following minimum requirements for stain removal as determined by ASTM 4828-91 Mechanical Method.
 

<i>Flat:</i>	<i>5 minimum rating</i>
<i>NonFlat:</i>	<i>7 minimum rating</i>
- Exterior Topcoats.** Products intended for exterior opaque topcoat use shall meet the following requirements: 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. Compliance will be determined by testing a white paint having a minimum 80 percent reflectance.

**Product Specific Environmental Requirements**

1. **VOC.** The VOC concentrations (in grams per liter) of the product shall not exceed those listed below as determined by U.S. Environmental Protection Agency (EPA) Reference Test Method 24.

COATING	INTERIOR	EXTERIOR
Flat	50	100
NonFlat	150	200

The calculation of VOC shall exclude water and tinting color added at the point of sale.

2. **Chemical Component Limitations – Aromatic Compounds.** The product must contain no more than 1.0 percent 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.
3. **Chemical Component Limitations – Other Chemicals.** The manufacturer shall demonstrate that the following chemical compounds are not used as ingredients in the manufacture of the product:

- Halomethanes: methylene chloride
- Chlorinated solvents: benzene, toluene (methylbenzene), ethylbenzene
- Chlorinated ethylenes: vinyl chloride
- Polynuclear aromatics: naphthalene
- Chlorobenzenes: 1,2-dichlorobenzene
- Phthalate esters: di (2-ethylhexyl) phthalate, butyl benzyl phthalate, di-n-butyl phthalate, di-n-octyl phthalate, diethyl phthalate, dimethyl phthalate

- Miscellaneous semi-volatile organics: isophorone
- Metals and their compounds: antimony, cadmium, hexavalent chromium, lead, mercury
- Preservatives (antifouling agents): formaldehyde
- Ketones: methyl ethyl ketone, methyl isobutyl ketone
- Miscellaneous volatile organics: acrolein, acrylonitrile

**DISPOSAL**

Simply put, the best way to dispose of your paint is to use it up! Careful measurements will determine the amount of paint needed before starting a project. Other options include storing latex paint for use on future projects or for touching up old ones, because latex paints are made to last for several years if properly sealed. Also, many cities have paint recycling programs for leftover paint. If you must throw away paint, check with your local district office, Division of Waste Management, Michigan Department of Environmental Quality for proper disposal guidelines. Or call the Environmental Assistance Center at 800-662-9278 for assistance.

**TIP OF THE MONTH**

Company and state purchasers please forward information about your environmental purchases to Bakerjj1@michigan.gov. This information will be documented to credit new purchasing activities and the many environmental purchases already taking place.

**The following architectural paints meet the Green Seal performance and environmental specifications. (List from Green Report of Dec., 1999)**

### Recommended Interior Paints

Products and phone numbers current as of 1/1/00

PRODUCT (INTERIOR)	MANUFACTURER	VOC G/L	PHONE
Safecoat Zero VOC Eggshell	American Formulating & Manufacturing	0	616-239-0321
Safecoat Zero VOC Flat	American Formulating & Manufacturing	0	616-239-0321
Safecoat Zero VOC Semi-Gloss	American Formulating & Manufacturing	0	616-239-0321
Pristine Eco Spec lat. Eggsh. Enamel	Benjamin Moore	0	800-826-2623
Pristine Eco Spec lat. Flat 219	Benjamin Moore	0	800-826-2623
Pristine Eco Spec lat. SG Enamel 224	Benjamin Moore	0	800-826-2623
Solvent-Free Wall Paint #18	Bioshield	0	800-621-2591
Odorless Solvent-Free Eggshell	Coronado Paints	0	904-428-6461
Odorless Solvent-Free Flat	Coronado Paints	0	904-428-6461
Wonder Pure Flat	Devoe	0	888-681-6353
Genesis Odor-Free Latex Flat	Duron Paints	0	800-72DURON
Genesis Odor-Free Latex SG Enamel	Duron Paints	0	800-62DURON
LifeMaster 2000 Eggshell	ICI Dulux	0	800-984-5444
LifeMaster 2000 Flat	ICI Dulux	0	800-984-5444
LifeMaster 2000 Semi-Gloss	ICI Dulux	0	800-984-5444
Ecological Flat 2000 GS	Innovative Formulations	0	520-628-1553
Ecological Semi-Gloss 2000 GS	Innovative Formulations	0	520-628-1553
Enviro-Cote 1500 Flat	Kelly-Moore	0	888-677-2468
Enviro-Cote 1510 Satin	Kelly-Moore	0	888-677-2468
Enviro-Cote 1520 Semi-Gloss	Kelly-Moore	0	888-677-2468
Natural Odor-Free Flat Wall Paint	McCormick Paints	0	877-PAINT55
Natural Odor-Free Low Sheen Acryl.En.	McCormick Paints	0	877-PAINT55
Health Spec Eg-Shel Enamel	Sherwin-Williams	0	800-524-5979
Health Spec Semi-Gloss Enamel	Sherwin-Williams	0	800-524-5979
Enviro-Safe Flat	Chem-Safe Products	1	210-657-5321
Enviro-Safe Satin	Chem-Safe Products	1	210-657-5321
Enviro-Safe Semi-Gloss	Chem-Safe Products	1	210-657-5321
Wonder Pure Eggshell	Devoe	3	888-681-6353
Wonder Pure Semi-Gloss	Devoe	3	888-681-6353
Air Care Latex Semi-Gloss	Coronado Paints	4	904-428-6461
HealthSpec Flat White	Sherwin-Williams	6	800-524-5979
Parade Flat White	United Coatings	12	800-541-4383
Solvent-Free Interior Semi-Gloss	Pittsburgh Paints PPG Arch. Finishes	14	888-PPG-SPEC
Coverall Flat White	United Coatings	14	800-541-4383
Builders Masterpiece Interior Latex Flat	Duron Paints	15	800-62DURON
Solvent-Free Interior Flat	Pittsburgh Paints PPG Arch. Finishes	16	888-PPG-SPEC

*All VOCs measured in grams per liter minus water*

**Recommended Interior Paints, Cont.**

PRODUCT (INTERIOR)	MANUFACTURER	VOC G/L	PHONE
Solvent-Free Eggshell	Pittsburgh Paints PPG Arch. Finishes	24	888-PPG-SPEC
Speedcraft Commercial Flat	Pittsburgh Paints PPG Arch. Finishes	31	888-PPG-SPEC
Washable Wallplate Flat Enamel White	Burning Paint	38	800-852-3636
Super Kote 1000 Latex Flat	Coronado Paints	41	904-428-6461
Aladintone Satin	United Coatings	41	800-541-4383
Speedhide Latex Flat	Pittsburgh Paints PPG Arch. Finishes	43	888-PPG-SPEC
Washable Wallplate Neutral Base	Burning Paint	44	800-852-3636
Interior Latex Low VOC Flat	Muralo	46	800-631-3440
P.C. Eggshell	United Coatings	46	800-541-4383
Manor Hall Interior	Pittsburgh Paints PPG Arch. Finishes	49	888-PPG-SPEC
Free Ceiling Flat White	Burning Paint	50	800-852-3636
Speedpro Semi-Gloss	Pittsburgh Paints PPG Arch. Finishes	51	888-PPG-SPEC
Washable Wallplate Latex Eggshell Enamel	Burning Paint	73	800-852-3636
Wallhide Interior Eggshell	Pittsburgh Paints PPG Arch. Finishes	74	888-PPG-SPEC
Speedhide Interior Eggshell	Pittsburgh Paints PPG Arch. Finishes	88	888-PPG-SPEC
Interior Latex Low VOC Eggshell	Muralo	89	888-631-3440
Manor Hall Interior Latex Semi-Gloss	Pittsburgh Paints PPG Arch. Finishes	93	888-PPG-SPEC
Satinhide Interior Semi-Gloss	Pittsburgh Paints PPG Arch. Finishes	93	888-PPG-SPEC
PROMAR 400 Latex Finish Semi-Gloss	Sherwin-Williams	96	800-524-5979
New Wave Odor-Free Satin	Finnaren & Haley	100	610-825-1900
Classic 99 Semi-Gloss	Sherwin-Williams	105	800-524-5979
Speedhide Interior Semi-Gloss	Pittsburgh Paints PPG Arch. Finishes	106	888-PPG-SPEC
Ultra Vinyl Acrylic Semi-Gloss Enamel	Duron Paints	116	800-72DURON
Manor Hall Interior Eggshell	Pittsburgh Paints PPG Arch. Finishes	117	888-PPG-SPEC
PROMAR 400 Latex Finish Eg-Shel	Sherwin-Williams	120	800-524-5979
Plastic Kote Acrylic Eggshell Enamel	Duron Paints	131	800-72DURON
Super Kote 3000 Vinyl Acrylic Semi-Gloss	Coronado Paints	135	904-428-6461
Washable Wallplate Semi-Gloss Enamel	Burning Paint	136	800-852-3636
Pro Kote Supreme Latex Semi-Gloss	Duron Paints	138	800-72DURON
Classic 99 Satin	Sherwin-Williams	144	800-524-5979
PROMAR 200 Latex Finish Eg-Shel	Sherwin-Williams	144	800-524-5979

## Recommended Exterior Paints

PRODUCT (EXTERIOR)	MANUFACTURER	VOC G/L	PHONE
Decra-Shield Flat	ICI Dulux	0	800-984-5444
Decra-Shield Satin	ICI Dulux	0	800-984-5444
Ecological Flat 2000 GS	Innovative Formulations	0	520-628-1553
Enviro-Safe Satin	Chem-Safe Products	1	210-657-5321
Aquacrylic Flat	United Coatings	5	800-541-4383
Acryclad Gloss	United Coatings	68	800-541-4383
Acryclad	United Coatings	80	800-541-4383
Century 2000	United Coatings	83	800-541-4383
Sun Proof Exterior Latex Semi-Gloss	Pittsburgh Paints PPG Arch. Finishes	84	888-PPG-SPEC
Sun Proof Exterior Flat Latex	Pittsburgh Paints PPG Arch. Finishes	90	888-PPG-SPEC
Ultra Delux Exterior Latex Flat	Duron Paints	91	800-72DURON
65 Series Vinyl Acrylic Flat	Kelly-Moore	97	888-677-2468
62 Series 100% Acrylic Flat	Kelly-Moore	100	888-677-2468
A-100 Latex Finish Satin	Sherwin-Williams	108	800-524-5979
LOWTEMP 35 Exterior Latex Satin	Sherwin-Williams	108	800-524-5979
Super Paint Exterior House & Trim Satin	Sherwin-Williams	108	800-524-5979
Weathershield 100% Acrylic S.G. House Paint	Duron Paints	116	800-72DURON
Sun Proof Exterior Latex Satin	Pittsburgh Paints PPG Arch. Finishes	123	888-PPG-SPEC
1245 AcryVelvet Eggshell	Kelly-Moore	124	888-677-2468
Speedhide Exterior Semi-Gloss	Pittsburgh Paints PPG Arch. Finishes	125	888-PPG-SPEC
Speedhide Exterior Satin	Pittsburgh Paints PPG Arch. Finishes	128	888-PPG-SPEC
Storm Plate 30 Low Lustre	Finnaren & Haley	132	610-825-1900
Super Paint Exterior House & Trim H/Gloss	Sherwin-Williams	132	800-524-5979
Weathershield 100% Acrylic Latex Satin	Duron Paints	139	800-72DURON
A-100 Latex Finish Gloss	Sherwin-Williams	156	800-524-5979
Super Paint Exterior House & Trim Gloss	Sherwin-Williams	156	800-524-5979
Ultra Delux Exterior Latex Semi Gloss	Duron Paints	158	800-72DURON
Manor Hall Exterior Semi-Gloss	Pittsburgh Paints PPG Arch. Finishes	178	888-PPG-SPEC
Semi-Gloss House & Trim	Finnaren & Haley	190	610-825-1900

*All VOCs measured in grams per liter minus water*

Please note: The Environmental Assistance Division partners with Green Seal and uses the *Choose Green Report* as a resource