



Linoleum	✓
Solid Wood Floors (pre-finished)	✓
Engineered Wood Floors (pre-finished)	✓
Ceramic Tiles (made in the USA/lead-free with no CRT content)	✓
Solid Wood Floors (Finished on site)	✓
Bio-based Floors	✓
Rubber or Rubber/Cork Floors (made without crumb rubber)	✓
Laminate	✓
Carpet (with no fly ash, no vinyl or polyurethane backing, and no PFAS)	✓
Engineered Wood Floors (Finished on site)	✓

NH&RA Asset Management Conference

Affordable Healthy Housing - Living in a Material World

William Weber



Linoleum	✓
Solid Wood Floors (pre-finished)	✓
Engineered Wood Floors (pre-finished)	✓
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Solid Wood Floors (Finished on site)	✓
Bio-based Floors	✓
Rubber or Rubber/Cork Floors (made without crumb rubber)	✓
Laminate	✓
Carpet (with no fly ash, no vinyl or polyurethane backing, and no PFAS)	✓
Engineered Wood Floors (Finished on site)	✓

Images: CCH/Mithun, Liberty Bank Building; HBN; MSR, Rose



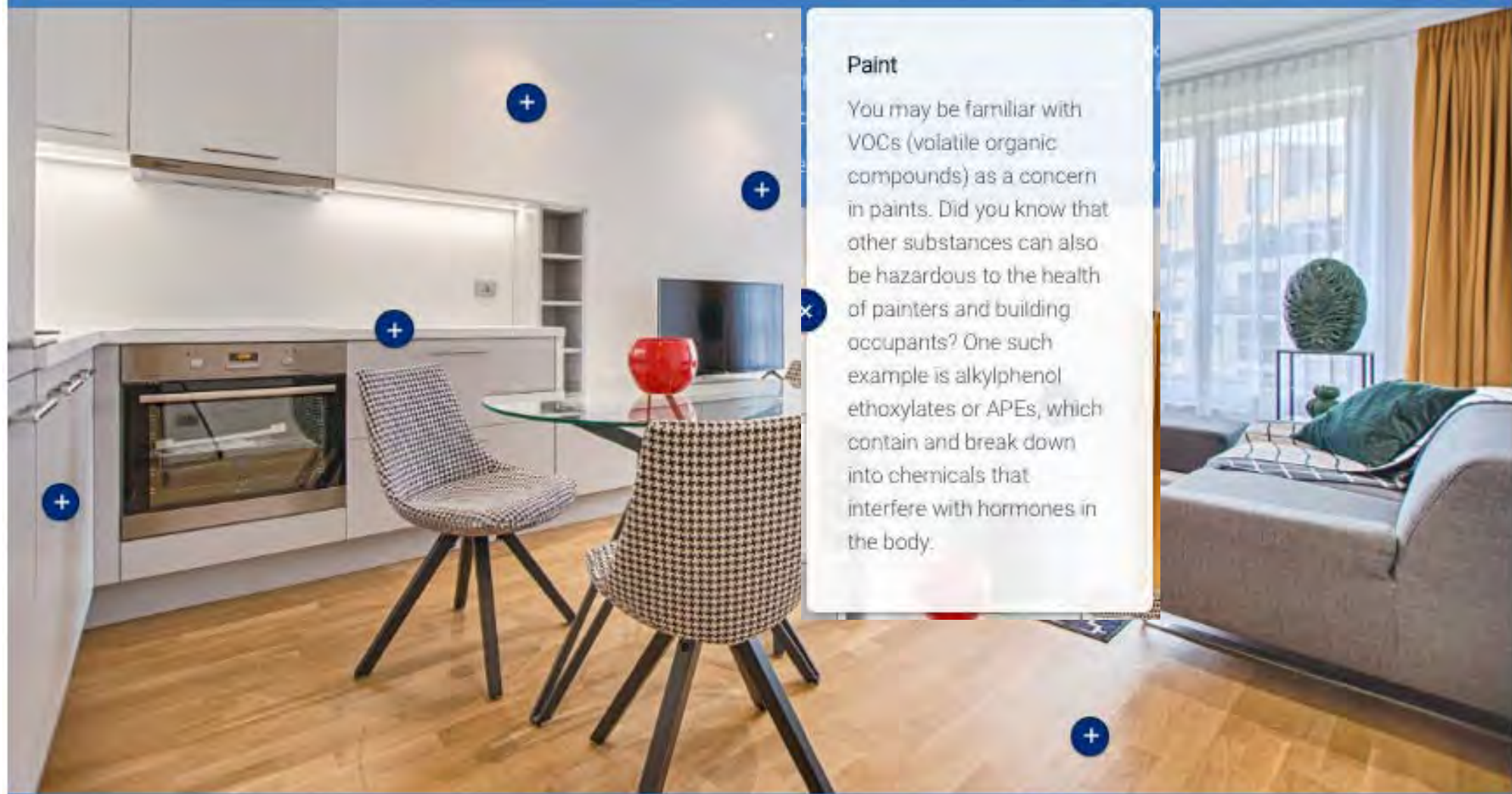
A national initiative supporting affordable housing leaders who are improving human health by using less toxic building materials.

homefree.healthybuilding.net





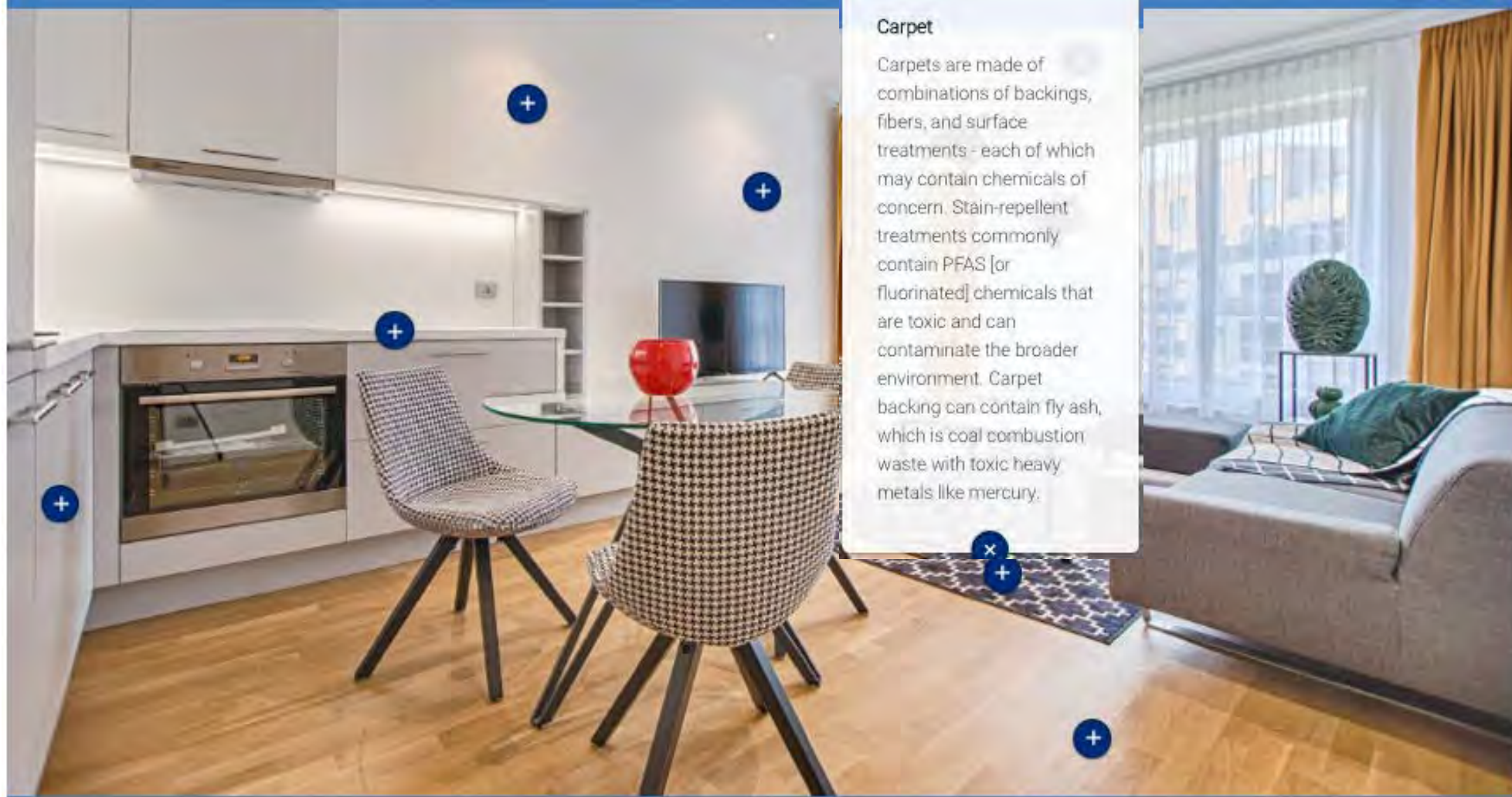
Hidden Toxins in the Home



Paint

You may be familiar with VOCs (volatile organic compounds) as a concern in paints. Did you know that other substances can also be hazardous to the health of painters and building occupants? One such example is alkylphenol ethoxylates or APEs, which contain and break down into chemicals that interfere with hormones in the body.

Hidden Toxins in the Home



Carpet

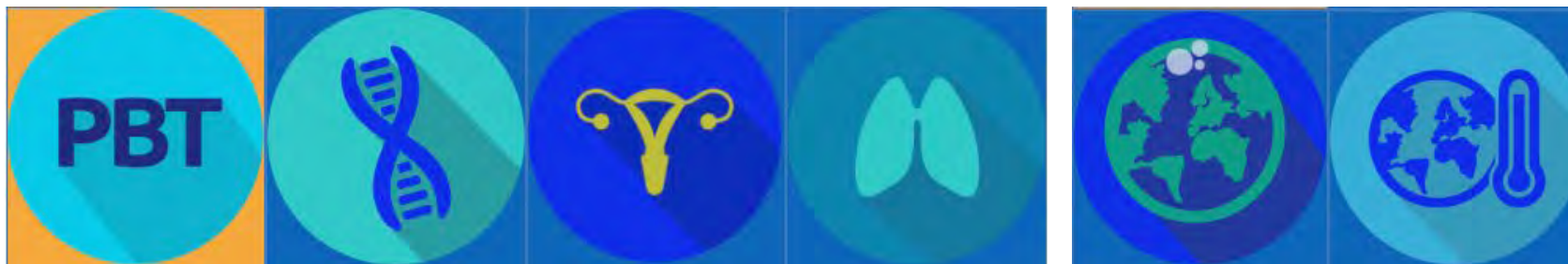
Carpets are made of combinations of backings, fibers, and surface treatments - each of which may contain chemicals of concern. Stain-repellent treatments commonly contain PFAS [or fluorinated] chemicals that are toxic and can contaminate the broader environment. Carpet backing can contain fly ash, which is coal combustion waste with toxic heavy metals like mercury.



Toxic Substance Control Act



INGESTION | INHALATION | DERMAL



Persistent and Bioaccumulative Toxicants (PBT)

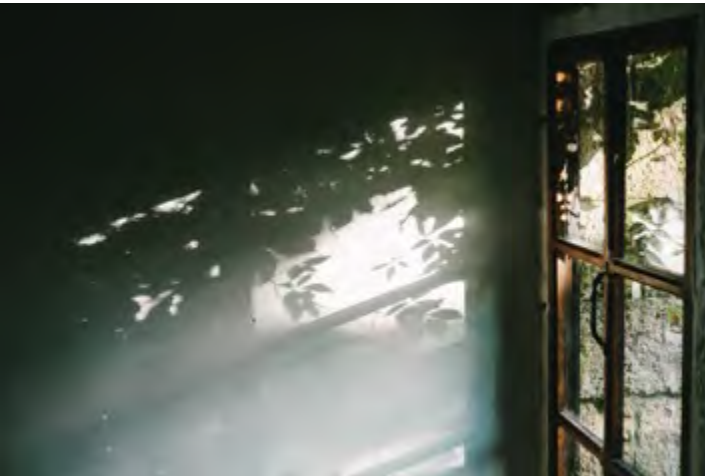
Carcinogens and Mutagens

Developmental & Reproductive Toxicants and Endocrine Disruption

Asthmagens

Ozone Depletion Potential (ODP)

Global Warming Potential (GWP)



The Importance of Transparency!


1. Right to know
2. Need to identify priorities
3. Innovation
4. Accelerates change



Action:

Prefer products with HPD and include HPDs as a requirement in specifications

PRODUCTS CATEGORIES



Flooring Products Hazard Spectrum

Individual products can vary significantly in their chemical content, however there are some types of flooring that generally contain less hazardous materials than others. HBN ranks types of flooring materials on a simplified spectrum below.[1] Products in the green categories are typically better options than those in the orange or red, and products in the yellow categories are generally less preferable than those at the top, but are better choices than those at the bottom.

Read more...

- Linoleum
- Solid Wood Floors (pre-finished)
- Engineered Wood Floors (pre-finished)
- Ceramic Tiles (made in the USA/lead-free with no CRT content)
- Solid Wood Floors (finished on site)
- Polyester Floors


Related Product News

A Cheat Sheet for Decoding Vinyl Product Literature

HBN created a "cheat sheet" to help connect the dots between our guidance on vinyl flooring and the technical literature produced by manufacturers. Have this sheet at the ready when a vinyl floor is necessary on your next project, and you're looking to make it as healthy as possible.

Spectrum of Flooring Options Now Includes Ceramic Tiles

At your request, we've expanded the chart once again to include two variations of ceramic tiles on



Paints by Type Hazard Spectrum

Individual paints can vary significantly in their health profiles, however some categories of interior paints are better than others when it comes to the health of building occupants and installers. Below, HBN ranks different types of interior latex paints on the market on a simplified spectrum.[1] Products in the green categories are better options than those in the orange or red, and products in the yellow categories are generally less preferable than those at the top, but are better choices than those at the bottom.

Read more..

- GS-11 Certified, Very Low VOC Content, and Low VOC Emissions
- APE-free, Low VOC Content, and Low VOC Emissions
- Low VOC Content
- Standard
- Recycled Paints
- Specialty Paints


Related Product News


It's Not Just About VOCs: Select APE-free Paint, Too

Earlier this year, the Healthy Building Network (HBN) recommended specifying APE-free paints in addition to low- or very low VOC paints to help protect human health and the environment. HBN is expanding this recommendation to include the broader category of chemical compounds known as APDs...


A Brush With Research: A HomeFree Member Searches for Healthy Paint


Guest Blogger: Susanne Maillon, Foundation Communities in Austin, TX
 Spoiler Alert: Sherwin-Williams Pro Mar 400 Zero VOC paints was identified as the healthiest paint.


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Paints by Type Hazard Spectrum

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[Read more...](#)


- GS-11 Certified, Very Low VOC Content, and Low VOC Emissions
- APE-free, Low VOC Content, and Low VOC Emissions
- Low VOC Content
- Standard
- Recycled Paints
- Specialty Paints
- Paints Advertised as "Antimicrobial"


Related Product News


It's Not Just About VOCs: Select APE-free Paint, Too

Earlier this year, the Healthy Building Network (HBN) recommended specifying nonylphenol ethoxylate (NPE)-free paints in addition to low- or very low volatile organic compound (VOC) paints to help protect human health and the environment. HBN is expanding this recommendation to include the broader category of chemical compounds known as alkylphenol ethoxylates (APEs), which encompass NPEs. Expanding the recommendation to include APEs will help avoid regrettable substitutions. If you have been concerned about VOCs in your paint,[1] you should be equally concerned about APEs, including NPEs. Read on to find out why and see a list of products without APEs.

A Brush With Research: A HomeFree Member


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[Read more...](#)

Related Product News

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GS-11 Certified, Very Low VOC Content, and Low VOC Emissions

APE-free, Low VOC Content, and Low VOC Emissions

Alkylphenol ethoxylates (APEs) are commonly used surfactants in acrylic paints. The APE chemical group includes nonylphenol ethoxylates (NPEs) and octylphenol ethoxylates (OPEs). NPEs and OPEs break down into nonylphenols and octylphenols. NPEs, OPEs, and these break down products have all been shown to have **endocrine** disrupting properties.[2] Alternate chemicals are available, and a transition is underway in the market. Most of these alternate chemicals have gaps in data, so additional information is needed from manufacturers to ensure these are safer chemicals. Ask manufacturers to disclose and fully assess the alternatives. For more information, read [It's Not Just About VOCs: Select APE-free Paint, Too](#).

Paints in this light green category are free of APEs. They also have low VOC content and emissions. Low VOC paints per South Coast Air Quality Management District (SCAQMD) Rule 1113 (Feb. 2016) contain ≤ 50 g/L in

Step 4

0:00 / 0:13

The top two tiers in the hazard spectrum, the green and light green, include a low VOC emission requirement.


Look for evidence that the product has low VOC emissions per the CDPH standard by checking for one of these certifications:

- UL GreenGuard Gold
- SCS Indoor Advantage Gold
- Berkeley Analytical ClearChem
- Master Painters Institute (MPI) X-Green
- GreenWise Gold


Some Sherwin Williams products, like ProMar Ceiling paint, shows the GreenGuard Gold logo on the product data sheet (right), which indicates that this product is certified to meet these requirements.



You can refer to the VOC content and emissions program summary noted in the previous step here to check for emissions certification options.



**SHERWIN
WILLIAMS**



101.81A

ProMar® 200
Zero VOC
Interior Latex Flat
B30-2600 Series

CHARACTERISTICS	SPECIFICATIONS	SURFACE PREPARATION																								
<p>ProMar 200 Zero VOC Interior Latex Flat is a durable, professional quality, washable, water-based acrylic latex paint for use on walls and ceilings of interior spaces, including wood, masonry, and plaster.</p> <p>Color: Medium</p> <p>Coverage: 350-400 sq ft/gal (at 1 mil dry film thickness)</p> <p>Drying Time @ 77°F, 50% RH: Touch: 1 hour Recoat: 4 hours</p> <p>Finish: 1.5-2.5 mils @ 100% solids</p> <p>Trade Name: ProMar 200</p> <p>Testing with CCE only:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Item</th> <th>Value</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td>High Solids</td> <td>35.5</td> <td>35.0%</td> </tr> <tr> <td>Base White</td> <td>0.6</td> <td>0.5%</td> </tr> <tr> <td>Drop Blue</td> <td>4.12</td> <td>3.0%</td> </tr> <tr> <td>Drop Green</td> <td>4.12</td> <td>3.0%</td> </tr> <tr> <td>Drop Red</td> <td>4.12</td> <td>3.0%</td> </tr> <tr> <td>Drop Yellow</td> <td>4.12</td> <td>3.0%</td> </tr> <tr> <td>Drop White</td> <td>4.12</td> <td>3.0%</td> </tr> </tbody> </table> <p>Notes: All values are based on 100% solids.</p>	Item	Value	Limit	High Solids	35.5	35.0%	Base White	0.6	0.5%	Drop Blue	4.12	3.0%	Drop Green	4.12	3.0%	Drop Red	4.12	3.0%	Drop Yellow	4.12	3.0%	Drop White	4.12	3.0%	<p>Block 1.1 ProMar 200 Zero VOC Interior Latex</p> <p>Drywall 1.1 ProMar 200 Zero VOC Interior Latex</p> <p>Masonry 1.1 ProMar 200 Zero VOC Interior Latex</p> <p>Plaster 1.1 ProMar 200 Zero VOC Interior Latex</p> <p>Wood 1.1 ProMar 200 Zero VOC Interior Latex</p> <p>Other products may be appropriate: When applied to a surface, this paint will provide a durable finish. It is not intended for use on surfaces that require a high level of abrasion resistance.</p>	<p>WALLS: Remove all old paint by sanding, scraping or other means. Fill cracks and holes with a suitable filler. Sand smooth. Remove all dust and debris. Prime with a suitable primer before painting.</p> <p>CEILING: Remove all old paint by sanding, scraping or other means. Fill cracks and holes with a suitable filler. Sand smooth. Remove all dust and debris. Prime with a suitable primer before painting.</p> <p>WOOD: Remove all old paint by sanding, scraping or other means. Fill cracks and holes with a suitable filler. Sand smooth. Remove all dust and debris. Prime with a suitable primer before painting.</p> <p>PLASTER: Remove all old plaster by sanding, scraping or other means. Fill cracks and holes with a suitable filler. Sand smooth. Remove all dust and debris. Prime with a suitable primer before painting.</p> <p>DRYWALL: Remove all old paint by sanding, scraping or other means. Fill cracks and holes with a suitable filler. Sand smooth. Remove all dust and debris. Prime with a suitable primer before painting.</p> <p>MASONRY, CONCRETE, GROUT, BLOCK: All new masonry must be cured for at least 28 days before painting. Remove all loose material and surface dirt. Apply a suitable primer before painting.</p>
Item	Value	Limit																								
High Solids	35.5	35.0%																								
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Step 4

The data sheet for SuperPaint does not list any of these certifications. Since it isn't listed on the product literature, it is likely that the paint doesn't have an emission certification, but we can verify this by checking the certification websites directly. By reviewing the certification websites, HBN verified that SuperPaint does not have a VOC emission certification.

Since there is no emission testing for the SuperPaint product, the highest category it can be part of is the yellow, for low VOC paints.

Attribute Tracking

Paint Name	GS-11	APE-free	VOC Content	VOC Emissions	Antimicrobial Health Claim
Sherwin Williams SuperPaint	No	Yes	≤ 50 g/L	No certification	



Navigate the lesson using the circled numbers, 1 through 10, at the bottom of the screen. Advance to the next section using the next module button after you have reviewed all the material.

Review and Summary

The final review reveals that the SuperPaint overall falls into the yellow category, since it doesn't meet all the requirements for the light green category due to the lack of VOC emission certification. Given the fact that it is APE-free however, it is a preferable option to others in the yellow category with similar VOC content.

Attribute Tracking					
Paint Name	GS-11	APE-free	VOC Content	VOC Emissions	Antimicrobial Health Claim
Sherwin Williams SuperPaint	No	Yes	≤ 50 g/L	No certification	No antimicrobial health claims

That brings us to the end of the process.

If you are considering a wide array of paints, it may be a good idea to work directly with the manufacturer or with your local product representative. While it is relatively easy to vet a single paint, checking the information for 10 or 15 can be time-consuming. A template email is included in the Resources section of this course.

CASE STUDY

Homes on Johnsons Pond



HOMES ON JOHNSONS POND, NON-PROFIT SENIOR HOUSING, SALISBURY, MARYLAND

PRODUCT CATEGORIES

- PAINT**
SHERWIN-WILLIAMS PROMAR ZERO VOC
COUNTERTOPS
SUBSTRATE ARENAUF
CABINETS & MILLWORK
SMART CABINETS, NAUF
INSULATION
KNAUF RESIDENTIAL FIBER-GLASS BATT INSULATION / FORMALDEHYDE FREE
DRYWALL
SELECTED PRODUCT WITH LESS SYNTHETIC GYPSUM

When the partnership between Homes for America and Healthy Building Networks' (HBN) HomeFree program began, the specifications for the Homes on Johnsons Pond were already written.

Seeking to make the most of the opportunity, the Homes on Johnsons Pond project team of Harkins Builders and Architecture by Design choose to focus their exploration of healthier materials on paint and flooring. The intent was to be ready with options should contingency funds become available during construction allow upgrades to healthier materials.

PAINT
Working in tandem with the HBN research team, the development team assessed paint options utilizing the HomeFree hazard spectrum while considering cost and performance, the project's National Green Building Standard (NGBS) certification. The National Green Building Standard (NGBS) is a third-party certification (ANSI) standard.

homefree.healthybuilding.net



Homes for America (non-profit)
New Construction, 3 Story, 63 Unit

Sustainability Requirements
National Green Building Standard

Used –
Sherwin-Williams
ProMar Zero VOC

Additional cost –
\$2,600

Changing Practice –
Now standard for all 5,600 units.

PAINT


Specification Recommendations

Prefer paints that meet the Green Seal-11 (GS-11) standard from 2010 or later whenever possible or specify paints known to be free of alkylphenol ethoxylates (APEs).

Specify bases with 10 g/L of VOCs or less and colorants that do not increase the overall VOC content.

At a minimum, specify paint bases and colorants with a VOC content of 50g/L or less.

Look for paints that have VOC emission testing and meet the requirements of the CDPH (California Department of Public Health) Standard Method for Testing VOC Emissions (01350).

HPN SELECTPRODUCTS ▾STAY IN TOUCH

Paint

Do you need paint that's healthy for your family and fits within your budget?





Learn how to select a paint that meets the sustainability goals of your project, from interior and exterior and high performance commercial products for your new construction and ongoing maintenance projects.







Material Health Guidance


GS-11 Certified, Less than 50 g/l VOC Content.

Material Health Guidance Breakdown

Legend

			
Lorem ipsum dolor sit amet, consectetur	Lorem ipsum dolor sit amet, consectetur	Lorem ipsum dolor sit amet, consectetur	Information on this data point is not provided

 GS-11 Certification ⓘ This product is GS-11 Certified.	 APE Content ⓘ The APE content of this product is unknown.
 VOC Emissions ⓘ The VOC content of this product is unknown.	 Antimicrobial ⓘ This product does not advertise antimicrobial health benefits.
 VOC Content ⓘ This product has less than 10 grams per liter.	 VOC Content ⓘ This product has less than 50 grams per liter.

Interested in learning more? Visit  **HomeFree**



Flooring Products Hazard Spectrum

Individual products can vary significantly in their chemical content, however there are some types of flooring that generally contain less hazardous materials than others. HBN ranks types of flooring materials on a simplified spectrum below.[1] Products in the green categories are typically better options than those in the orange or red, and products in the yellow categories are generally less preferable than those at the top, but are better choices than those at the bottom.

Related Product News

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Read more...

[Linoleum](#)[Solid Wood Floors \(pre-finished\)](#)[Engineered Wood Floors \(pre-finished\)](#)[Ceramic Tiles \(made in the USA/lead-free with no CRT content\)](#)

Related Product News

A Cheat Sheet for Decoding Vinyl Product Literature

Healthy Building Network recently demold our approach to product research for the Community of Practice team in Seattle. In preparation for the call, we reviewed product literature for a vinyl sheet floor that had been specified for their demonstration project, and matched that against...

Spectrum of Flooring Options Now Includes Ceramic Tiles

Healthy Building Network and the HomeFree team have now had a chance to talk with several communities of practice, working hard to incorporate healthy materials guidance into their varied - but all amazing - affordable housing projects. As part of these conversations, we have highlighted ...

Brief: Post-Consumer Flexible Polyurethane Foam Scrap Used In Building Products

Carpet cushion (that soft layer installed between a sub-floor and a carpet) is made from flexible polyurethane foam (FPF). Generally that foam is recycled scrap from the manufacture of furniture, such as couch cushions, or old carpet cushion itself. Healthy Building Network's research into...

How Common Product Profiles Help Inform Product Decisions

On the Products section of HomeFree, in addition to individual products, visitors will now see Common Product Profiles (CPs for short). These Common Product Profiles describe the composition found to be most typical to products of that type. For example, a CP for "Fiberglass Batt In..."

Carpet Padding and Flame Retardants

Flexible polyurethane foam (FPF) is found in nearly all upholstered furniture and mattresses, in car seats, and in carpet cushion. At the end of life, some of these mattresses, carpet cushions, and articles of furniture are recycled and reused in new products, mainly carpet pads. While in many cases...

Rapid Change Sweeps Flooring Industry -- by Jim Vallette

Resilient floors and carpets made today are quite different than those made just a few years ago. On Monday morning, I will join flooring experts from manufacturing firms, architecture and design firms, and hospitals, to discuss

Linoleum	▼
Solid Wood Floors (pre-finished)	▼
Engineered Wood Floors (pre-finished)	▼
Ceramic Tiles (made in the USA/lead-free with no CRT content)	▼
Solid Wood Floors (finished on site)	▼
Biobased Floors	▼
Rubber or Rubber/Cork Floors (made without crumb rubber)	▼
Laminate	▼
Carpet (with no fly ash, no vinyl or polyurethane backing, and no PFAS)	▼
Engineered Wood Floors (finished on site)	▼
New Formulations of Vinyl Floors (phthalate-free)	▼
Ceramic Tiles (not made in the USA/presence of lead is unknown/CRT tiles)	▼
New Formulations of Vinyl Floors (with post-consumer recycled content)	▼
Traditional Vinyl Floors	▼
Rubber or Rubber/Cork Floors (made with crumb rubber)	▼
Carpet (containing fly ash, vinyl or polyurethane backing, and PFAS)	▼
Traditional Vinyl Floors (with post-consumer recycled content)	▼



Flooring Products Hazard Spectrum

Carpet

- No vinyl or polyurethane backing
- No fly ash
- No PFAS

Carpet

- With vinyl or polyurethane backing
- With fly ash
- With PFAS



Flooring Products Hazard Spectrum

New Formulations of Vinyl Floors

→ Phthalate-free

New Formulations of Vinyl Floors

→ No intentionally added phthalates

→ With post-consumer recycled content

Traditional Vinyl Floors

→ Intentionally added phthalates

Traditional Vinyl Floors

→ Intentionally added phthalates

→ With post-consumer recycled content

Linoleum

Solid Wood Floors (pre-finished)

Engineered Wood Floors (pre-finished)

Ceramic Tiles (made in the USA/lead-free)

Solid Wood Floors (finished on-site)

Biobased Floors

Rubber (without crumb rubber)

Laminate

Carpet (no fly ash, no vinyl or PU, no PFAS)

CASE STUDY

Dublin Crossing



DUBLIN CROSSING, NON-PROFIT SENIOR HOUSING, MANKATO, MINNESOTA

PRODUCT CATEGORIES

FLOORING

J&J ENVISION CARPET TILE – INCIGNITO MODULAR, INDEX MODULAR, AND KINETEX UMBRA

FORBO MARMOLEUM MODULAR AND ALLURA LVT

CABINETRY & MILLWORK

SMART CABINETRY HCMA AND ESP CERTIFIED NAUF

DOORS

LYNDEN GREENDOR, NAUF, FSC

PAINT

LOW VOC SHERWIN WILLIAMS PRO-MAR 200

Dublin Crossing is a 50-unit, 3-story affordable workforce housing development in Mankato, Minnesota. Developed by CommonBond Communities, the project includes 100% affordable units to house families and formerly homeless with one-, two-, and three-bedroom apartments. Amenities include a playground, community room with serving kitchen, patio with grilling station, and computer lab. The development meets Enterprise's Green Communities Criteria with the Minnesota Overlay.

The timing of HomeFree's partnership with CommonBond Communities was serendipitous. At the time CommonBond—the developer, owner and operator of over 6,000 affordable housing units—was undertaking a review and update of the standard material specification for their whole portfolio for new construction and maintenance of their buildings.

The existing standard specification, which meets the Enterprise 2015 Green Communities Criteria, was a strong

foundation on which to build. Benchmarking their current practice against the HomeFree hazards spectrums, they realized that many of the recommendations were already included in their current practice. This includes low-VOC paint, and doors and millwork using NAUF (No Added Urea Formaldehyde) composite wood products.

FOCUS ON FLOORING

Employing the Dublin Crossing project as an opportunity to explore alternative flooring options, the project archi-

homefree.healthybuilding.net



CommonBond (non-profit)
New Construction, 3 Story, 63 Unit

Sustainability Requirements
Green Communities w/MN Overlay

Used –
J&J Envision Carpet Tile –
Incognito Modular, Index Modular,
And Kinetex Umbra

Forbo Marmoleum

Modular And LVT



Products

Flooring
Paint
Drywall
Countertops
Cabinetry & Millwork
Insulation
Flooring Adhesives
Sealants



Baseline Specifications

California
Louisiana
Minnesota
Pacific Northwest
Washington, DC
Metro



Case Study

Demonstration
Projects



Courses

Why Materials Matter
Product Level
Paint
Insulation (June)

WEBSITES FROM HBN

[Healthy Building Network](#)

[HomeFree](#)

[HomeFree Campus](#)

INSULATION REPORT AND SPEC GUIDANCE

[Making Affordable Multifamily Housing More Energy Efficient: A Guide to Healthier Upgrade Materials](#)

[Guidance for Specifying Healthier Insulation and Air-Sealing Materials](#)

KNOW BETTER

William Weber
wweber@healthybuilding.net

HEALTHYBUILDING.NET