FIRE RETARDANT COATINGS

THE HEALTH CONCERNS¹

1.







mineral

2. **VOC** content

X BPA X cadmium **X** halogenated flame retardant X hexvalent chromium

X mercury X organostannic compound

KEEP IN MIND THE PROJECT PRIORITIES

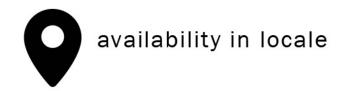


cost



compatibility with paint (& color)





- 1. What is the project budget for the item or assembly?
- 2. What is the fire-rating required?
- 3. What are the aesthetic requirements?
- 4. How much of the product will be specified?
- 5. What is the total assembly?



CAN'T FIND THE INFORMATION? MAKE A PHONE CALL

RESPONSIVE MANUFACTURER CALL

- 1. Go through the questions that you could not answer using their product technical data or MSDS.
- Recommend that they add their product to GreenWizard to make them readily accessible to architects seeking performance, high cost-effective, environmentally friendly, and healthy materials.

UNRESPONSIVE MANUFACTURER CALL

- 1. Push for information. Explain that the MSDS does not give information about the long term health effects of chemicals in these products, and that you are interested in finding the healthiest, high performing, cost-effective product available.
- 2. Understand that gaps in information are sources of risk.

PRODUCT COMPARISON

Flame Control (20-20A)²

VOC: 73 g/L

cannot paint over, comes in colors

? wet mils

\$109/gallon - approximation

No Burn (Plus)³

VOC: 18 g/L

can be painted over

8 wet mils

\$45/gallon, 200sf covered per gallon

SCAQMD certified found via GreenWizard

Thermacote⁴

VOC: 1.2 g/L cannot be painted over, comes in pastel colors ? wet mils

California Dept of Health certified found via GreenWizard

Fire Retardant Coatings of TX (FX Lumberguard)⁵

VOC: 0 g/L - needs to be verified can be painted over 3 wet mils (more or less absorbs in) \$65/gallon, 325-350 sf per gallon odor free, non toxic, non corrosive, non halogenated, chlorine free, Non PBDE's, Non Bromiated Products, water based polymer, not for high moisture/wet locations (kitchen,bathroom)

RESOURCES

¹Michel Dedeo and Suzanne Drake. Healthy Environments: Strategies for Avoiding Flame Retardants in the Built Environment. New York, NY: Perkins + Will, October 15, 2014.

²http://www.flamecontrol.com/20-20a

3http://noburn.com/products/fire-retardant-coatings

4http://www.thermacote.com/

5http://www.frctexas.com/FX-Lumber-Guard.html

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