

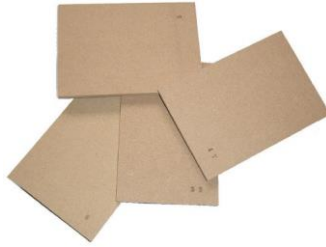


**TEAM SCHUTMAAT**

Phone: (812)309-0782

Email: [fred@teamschutmaat.com](mailto:fred@teamschutmaat.com)

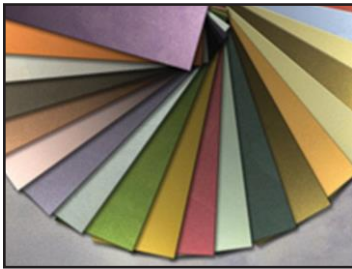
[www.abcorindustries.com](http://www.abcorindustries.com)



## Durable & Seamless Coating

- Seamless and uniform thickness
- Withstands scratches & marring
- Eight years of field testing

## Unlimited Color & Finish Options



- Quick custom color matches
- Various smoothness levels
- Gloss range; low-med-high
- Range of texture levels

## Environmentally Friendly



- MDF contains recycled wood fibers
- Powder coating has no solvents
- Overspray powder is recycled for reuse

**TS**

**TEAM SCHUTMAAT**

Phone: (812) 309-0782

Email: [fred@teamschutmaat.com](mailto:fred@teamschutmaat.com)

[www.abcorindustries.com](http://www.abcorindustries.com)





Powder on Wood  
The New Paint

### Durability and Performance Characteristics

Tabor Abrasion Resistance	ASTM D4060, CS-10 Wheels, 1000 cycles	60 mg loss
Pencil/Scratch Hardness	ASTM D3363-05	Pass 3H
Gouge Hardness	ASTM D3363-05	Pass 3H
Impact	NEMA LD3-1995, 3.8 500g steel ball	No Cracking at 35 inches
Thickness	ASTM D4138, Method A Destructive, Tooke Gauge	4.5-5.5 mils
Crosshatch Adhesion	ASTM D3359, Method A	No loss of Adhesion

### Stain Resistance Characteristics

10% Citric Acid	Nema LD3-2005, 3.4	No Effect
Vegetable Oil	Nema LD3-2005, 3.4	No Effect
Coffee	Nema LD3-2005, 3.4	No Effect
Tea	Nema LD3-2005, 3.4	No Effect
Milk	Nema LD3-2005, 3.4	No Effect
Catsup	Nema LD3-2005, 3.4	No Effect
Mustard	Nema LD3-2005, 3.4	No Effect
Vinegar	Nema LD3-2005, 3.4	No Effect
Lipstick	Nema LD3-2005, 3.4	No Effect
Grape Juice	Nema LD3-2005, 3.4	No Effect
#2 Pencil Lead	Nema LD3-2005, 3.4	No Effect
Hydrochloric Acid	**	No Effect
Nitric Acid	**	No Effect
Sodium Hydroxide 25%	**	No Effect
Ammonium Hydroxide 25	**	No Effect
Windex	**	No Effect
Fantastic	**	No Effect



\*\*All tests were conducted for 16 hours. Agents were covered with a watch glass, washed off with water and wiped off with a cloth



TEAM SCHUTMAAT

Phone: (812)309-0782

Email: [fred@teamschutmaat.com](mailto:fred@teamschutmaat.com)

[www.abcorindustries.com](http://www.abcorindustries.com)





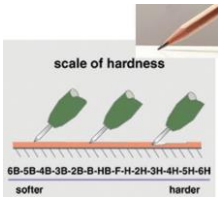
Powder on Wood

## Advantages of Powder on Wood



### Re-Paintable

Store display parts may be touched up in the field with liquid paint if necessary. Some displays can be wet coated a year later to freshen or change the look.



### Durability

The durability of powder coating over wet paint is well documented from the metal coating industry. These same increased performance characteristics have been transferred to the MDF powder coating we use in our process.



### Additives

MDF powder contains additives that are not found in wet paint. The powder we have formulated for the store display industry contains slip agents such as Teflon®, giving excellent hardness for shelving and other surfaces. Extra stain and abrasion resistance are also achieved.

### Environmentally Friendly

Powder on Wood is a complete GREEN manufacturing process. The powder is 100% solids, with no VOC's, that uses heat to melt, flow and cure the powder into a coating. The overspray powder is recycled back through our equipment to be sprayed again. The MDF itself contains recycled wood fibers, and when routed, creates wood dust and shavings. This material can be sent off for a "third generation" use such as fresh cow bedding in farm feed lots.



TEAM SCHUTMAAT

Phone: (812)309-0782

Email: [fred@teamschutmaat.com](mailto:fred@teamschutmaat.com)

[www.abcorindustries.com](http://www.abcorindustries.com)



## ENVIRONMENTAL ADVANTAGES OF POWDER COATED WOOD

- Powder on wood is a completely green process.
- It contains no heavy metals or solvents.
- Abcor products contain no PVC's (Polyvinyl Chlorides).
- Abcor process or product does not emit any Hazardous Air Pollutants (HAPs).
- Abcor's process does not emit any VOC's (volatile organic compounds) into the atmosphere.
- The overspray powder can be fully reclaimed and reused during the spray process which eliminates waste.
- Abcor finished product is 100% Recyclable. **Laminate is not. CARBON**

## FOOTPRINT COMPARISONS – COATING A 5 SQUARE FOOT PIECE OF MDF

Carbon Footprint calculations were completed by the DSM Corporation of the Netherlands for Ikea. The calculations were generated by a cradle to cradle carbon analysis of the resin, pigment, solvent, coating production, application energy, solvent incineration and transportation.

Powder on Wood: **1.25** Kg of CO<sup>2</sup>

High Pressure Laminate: **4.87** Kg of CO<sup>2</sup>

Solvent Based Paint: **5.81** Kg of CO<sup>2</sup>

- The Medium Density Fiberboard (MDF) it is applied to is a reused waste product from the lumber industry.
- All Abcor MDF comes from 100% bio-degradable recycled/recovered wood content.
- All Abcor MDF is CARB II Compliant and Formaldehyde Free.
- Abcor can source and does use FSC (Forest Stewardship Council) / Chain of Custody Certified MDF.
- Abcor runs a near-zero waste plant. It grinds up all MDF offal (unused portion of the MDF sheet) and sells it to a local farmer (for use in hog and cow beds) in Holland Charter Township, Michigan (< 3 miles from Abcor).
- Centralized US location decreases transportation distances to aid in LEED compliance 500-mile rule.
- For sustainability and life cycle extension, a powder coated surface is touched up in the field the same way a wet coated paint is.



**TEAM SCHUTMAAT**

Phone: (812)309-0782

Email: [fred@teamschutmaat.com](mailto:fred@teamschutmaat.com)

[www.abcorindustries.com](http://www.abcorindustries.com)