

# UV Powder Coatings for Wood: Going Green for Commercial Success

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Radex UV Powder Coating

# What Needs to Proceed a 'Commercial Success'

- A market that is “ready, willing & able” to accept the product
- An application that meets or exceeds the “need”
- Research & Data gathering

# Terms & Definitions

- GREEN

- LEED

- Leed-CI

# UV Powder starts Here

Material Safety Data Sheet



## Medium-Density Fiberboard

Flakeboard  
80 Tiverton Court, Suite 701  
Markham, Ontario,  
Canada, L3R 0G4

Phone Number: (905) 475-9686  
Revision Date: 1/16/2008

### 10. Stability and Reactivity

**Stability:**       Unstable                       Stable

**Conditions to Avoid:** High relative humidity and high temperature increase the rate of emission of formaldehyde from medium-density fiberboard.

**Incompatibility (Materials to Avoid):** Strong oxidizing agents, strong acids

**Hazardous Decomposition or By-Products:** Thermal and/or thermal-oxidative decomposition can produce irritating and toxic fumes and gases, including carbon monoxide, aldehydes and organic acids.

**Hazardous Polymerization:**               May occur                       Will not occur

**Sensitivity to Mechanical Impact:** NAP

**Sensitivity to Static Discharge:** NAP

# Process advantages of UV Powder

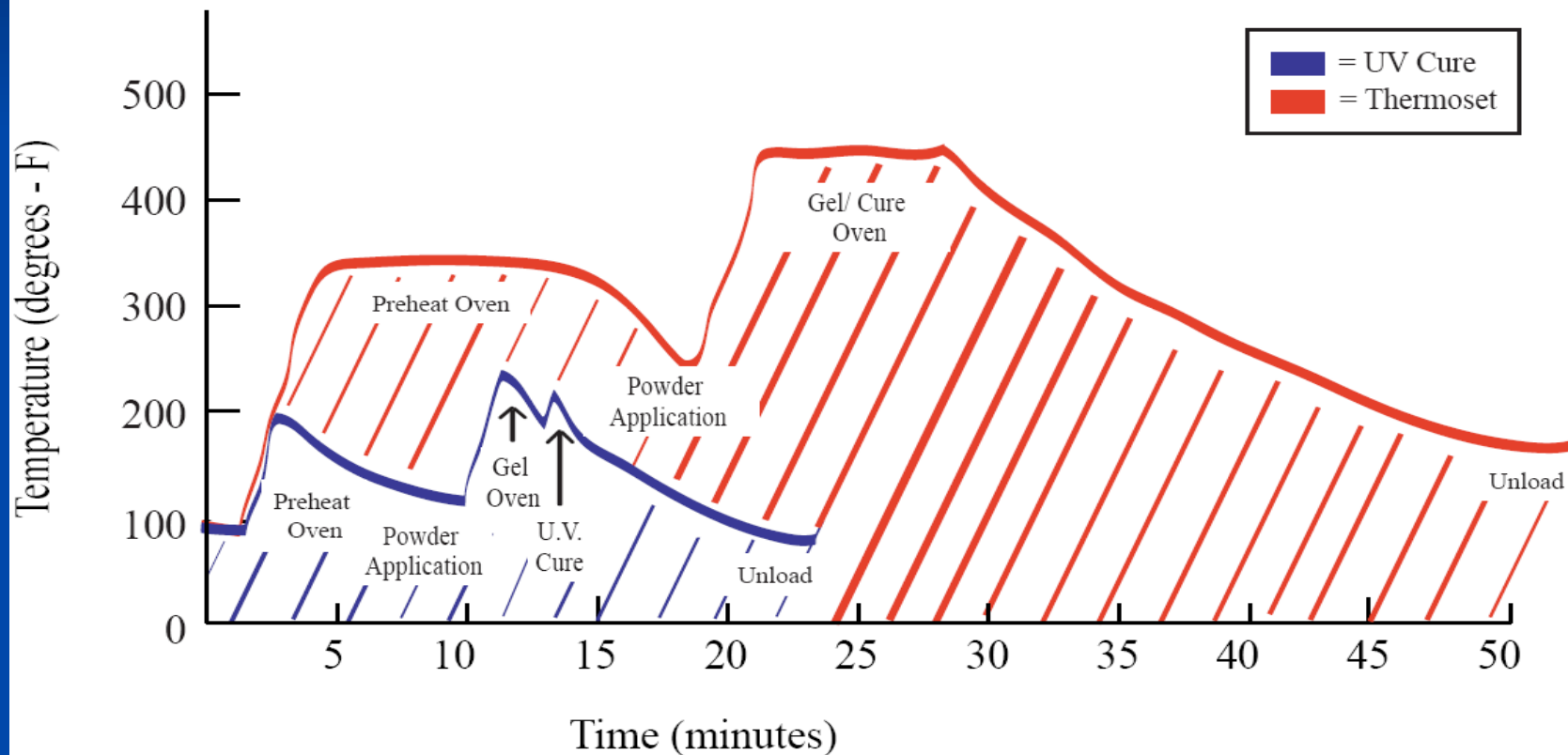
- Speed of Cure
- Lower application temperature
- Less heat stress on the MDF
- Health & Safety issue (key)

# Property advantages of UV Powder

- Micro-texture finish consistency
- Chemical resistance
- Physical properties
- Exelon's success leads the way

# Heat & Energy of Powder

## Process Temperature/ Dwell Time Analysis Thermoset vs. UV Cure



\*Above process temperatures are estimates only. See Powder manufacture for exact temperatures.

# New Look Desking Systems for the Office

- Bold Appearing Work Surface “*Tayco*”









# New Look Desking Systems for the Office

- Seamless with new design- “*Inveco*”









# Wall Panels for Store Interiors

- Problem: Paper/paint wear on walls
- Solution: MDF panels & UV powder
- Result: Very, very satisfied









# The Fitting Room Door is Now 'Open'

- Problem: Poor wear of wood door
- Solution: Make door from MDF
- Result: Very satisfied customer



13/04/2006



**HARRING DOORS**

Tel 1-888-689-0683  
Fax 519-644-2520

RADEX UV POWDER COATING

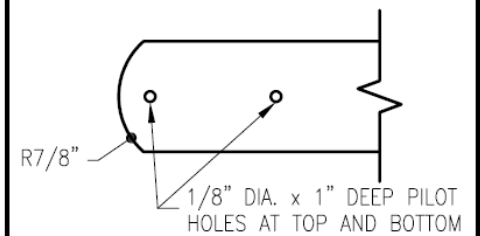
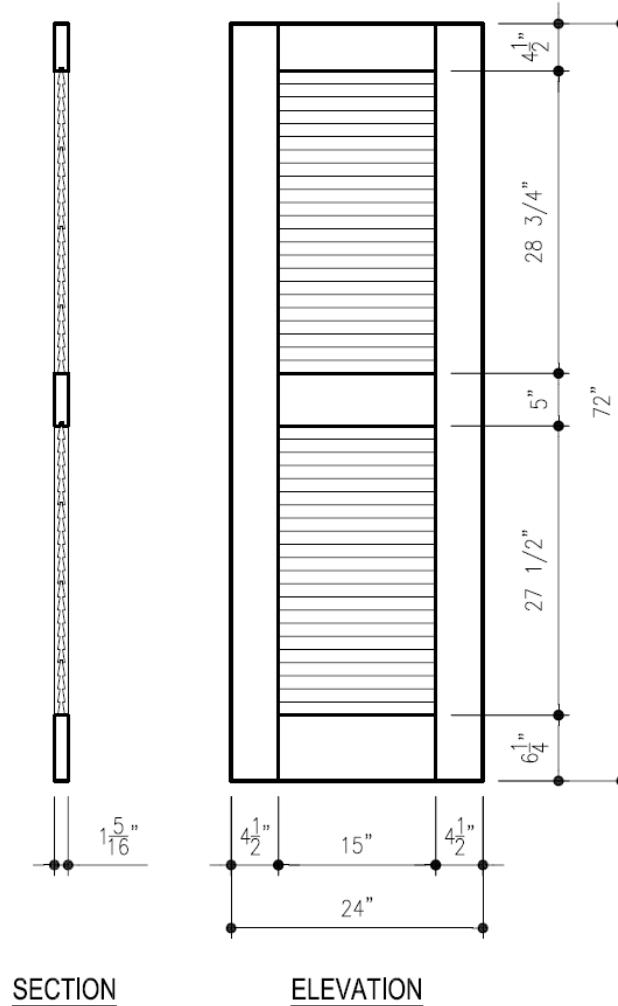
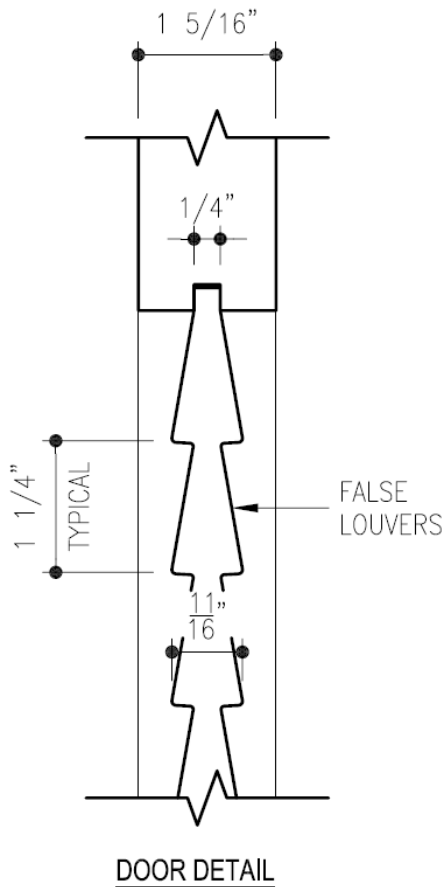
DATE: MARCH, 2006

LOUVER OVER LOUVER  
INTERIOR DOOR

- DOOR THICKNESS • 1 5/16"
- SPECIES & CUT • MDF
- CONSTRUCTION • SOLID
- LOUVERS • FALSE MDF LOUVERS
- PREFINISH • FACTORY PRIME

MACHINING

ITEM	DESCRIPTION
PILOT HOLES	TOP & BOTTOM
7/8" RADIUS 1 EDGE (1 EDGE SQUARE)	





# Garage Cabinets Makes Organizing Easy

- Problem: Too much stuff !!!
- Solution: Keep it organized
- Result: Home values increase







# Tire Display Rack

- Problem: Lack of sales dollars
- Solution: Design new MDF displays
- Result: Sales increases in all stores

