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## KATILAC COATINGS INC.

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www.katilaccoatings.com

391 Hanlan Road, Unit #1, Woodbridge, ON L4L 3T1 phone: 905-856-6464 fax: 905-856-6484  
840 Appleby Line, Burlington, ON L7L 2Y7 phone: 905-637-2931 fax: 905-637-8918

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## PRODUCT DATA SHEET

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### D9 SUMMIT WHT POST-CATALYZED TOPCOAT SERIES

The D9 Summit Series is a line of white pigmented, solvent borne, two component, alkyd/amino resin based conversion varnishes. They are yellowing resistant, high hiding topcoats that feature outstanding chemical resistance and exceptional build. They are specifically designed to be used in combination with D28 Duraprime High Hide White Post-Catalyzed Primer in a high quality interior wood finishing system.

#### SUGGESTED APPLICATIONS:

- cabinets
- household furniture
- interior trim and millwork
- office furniture
- kitchen and bath components
- high demand furniture

#### KEY PERFORMANCE FEATURES:

- non-yellowing
- excellent hiding
- high build
- outstanding mar and scratch resistance
- ultra low formaldehyde
- outstanding chemical and moisture resistance
- excellent flow and leveling
- conforms to KCMA & AWI/TR-4 Standards

#### TYPICAL PHYSICAL PROPERTIES:

- Viscosity @ 25°C: 40 - 50 seconds Ford Cup # 4
- % Non-Volatile: 66.00 +/- 1.00%
- Specific Gravity @ 25°C: 1.1100 +/- 0.01 gms/cc
- VOC (gms/liter ): 408 gms/L
- Gloss (60 D): available in 10, 25, 35, 50 & 90 sheen

#### CATALYST, REDUCTION AND CLEAN-UP:

1CAT Catalyst – 10% addition (volume) to unreduced product  
T4409 Lacquer Thinner Slow (9002) – 10% addition (volume), or as required for each application  
T4420 215 Gun Wash Universal - as wash-up



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### COLOUR DEVELOPMENT:

- tint with 844 Series colourants up to 10% by volume
- intermix up to 1:1 ratio with D Series Kativar Plus Post-Catalyzed for the development of mid to deep bases
- mid to deep bases can be tinted up to 10% by volume with 844 Series

### TYPICAL COVERAGE:

10 to 12 square meters / Liter @ 1 mil dry

### END-USER DIRECTIONS:

#### Coating Preparation:

- stir well before using
- add 10% 1CAT Catalyst (volume) to unreduced product
- add up to 10% T4409 Lacquer Thinner Slow (9002) to catalyzed product
- normal pot life of mixture is 10 to 12 hours at room temperature
- see Colour Development Information above for guidelines on tinting and intermixing

#### Finishing Schedule for MDF:

- MDF surface should be clean, dry and free from any oil or grease
- sand surface smooth with 150 to 180 grit sand paper
- seal routed areas with D Series Kativar Plus Post-Catalyzed or KV Series Kativar Post-Catalyzed Conversion Coating
- dry for 30 to 60 minutes at room temperature and sand coated areas with 240 to 320 grit sand paper
- prime the entire surface with D28 Duraprime White Post-Catalyzed Primer at 4 to 5 mils wet
- dry 30 to 60 minutes at room temperature and sand the entire surface with 240 to 400 grit sand paper

*\*\*proper sanding is critical to produce a smooth finish and promote adhesion between the prime coat and the topcoat*

- apply a full, even coat at 4 to 5 mils wet of D9 Series topcoat
- dry for 1 to 2 hours at room temperature and sand entire surface with 300 to 400 grit sand paper

*\*\*proper sanding is critical to achieve a smooth surface finish*

- apply a second thin coat at 3 to 4 mils of D9 Series topcoat



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\*\*Note: further reduction of the D9 Series topcoat will promote better flow and leveling for a smoother final appearance

- dry at room temperature for 1 to 2 hours before handling

\*\*Note: total film build (primer/topcoat) should not exceed 5 mils dry

For more detailed information regarding MDF or other wood finishing systems, please contact a Katilac Tech Service Representative

### Typical dry times for D9 Series:

- dry to touch..... 10 minutes
- dry to sand.....30 to 60 minutes
- stack/pack.....18 to 24 hours

\*\*Note: Drying times will decrease at higher temperatures/lower humidity and will increase at lower temperatures/high humidity.

## PERFORMANCE TESTING / FILM CHARACTERISTICS

All performance testing is based on a composite of ASTM , AWI & ANSI Standards

### Household Chemical Resistance (ASTM D1308)

- test samples consist of 1 mil dry film on glass
- aged 7 days at room temperature prior to testing
- testing was performed by placing 1 milliliter of reagent on the surface of the dry film, under a watch glass for time as noted

Distilled Water (D1308. 6.1.1)	24 hrs	no effect
Ethyl Alcohol (D1308.6.1.3)	24 hrs	no effect
Coffee @ 180F (D1308.6.1.13)	24 hrs	no effect
Vinegar (D1308.6.1.4)	24 hrs	no effect
Mustard (D1308.6.1.12)	2 hrs	Slight discolouration – recovers @ 24 hrs
Vegetable Oil (D1308.6.1.11)	24 hrs	no effect
Dish Detergent (D1308.6.1.8)	24 hrs	no effect

Note: A complete list of resistance tests with industrial and household chemicals can be found under ADDITIONAL STAIN TESTS



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## Hot Print Resistance (ASTM D 2091-96)

- test samples consisted of 1 mil dry film aged for 24 hours at room temperature prior to print testing
- duck cloth under a weight of 4 psi was then placed on dry film surface for a defined temperature/time
  - 72F (18 hrs) 4 psi...pass
  - 120F (1 hr) 4 psi.....pass
  - 140F (1 hr) 4 psi.....pass

## Hot/Cold Cycling Test (ASTM D 1211-97 )

- test samples were coated on red oak at 4 mils dry and aged 21 days at room temperature prior to testing
- one cycle consisted of:
  - 120F / 70% RH for 1 hour
  - room temperature for 1 hour
  - -5F for 1 hour
- specimens examined for discolouration, blistering, cold cracking and film failure

No signs of failure at 10 cycles

## Flammability Testing (ASTM E 84- 08a) Surface Burn Rating

- test samples consisted of fiberglass reinforced cement board coated with 4 mils dry of D9 Series
- samples were aged for 21 days at room temperature prior to testing

Flame Spread Index.....5.0 Class 1 / Class A

Smoke Development.....5.0 Class 1 / Class A

## KCMA Testing (ANSI/KCMA A161.1.1.2000)

- test samples consist of solid red oak coated at 4 mils dry and aged for 21 days at room temperature

### A. Chemical Testing

- vertical position for 24 hours uncovered
- water washed, dried and examined

vinegar..... pass  
 orange juice..... pass  
 ketchup..... pass  
 olive oil.....pass  
 mustard.....pass

lemon juice.....pass  
 grape juice..... pass  
 coffee..... pass  
 100 proof alcohol....pass




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**B. Detergent and Water Resistance Test**

- red oak test panel edge immersed in KCMA detergent solution for 24 hours
- removed, dried and examined

pass.....no signs of blistering, whitening, delamination or swelling

**C. Heat Resistance Test**

- red oak test panel placed in test chamber at 120F / 70% RH for 24 hours

pass.....no signs of discolouration, blistering, checking or other film failure

**D. Hot/Cold Cycle Test**

- red oak test panel coated at 4 mils dry
- one cycle consists of 1 hour at 120F / 30 minutes @ room temperature / 1 hour at -5F

pass.....10 cycles with no signs of discolouration, blistering, cold checking or any other film failure

## ADDITIONAL STAIN TESTS

Testing conducted according to AWI, ASTM & KCMA Standards

- test samples consist of 1 mil dry film on glass
- aged for 21 days at room temperature prior to testing
- testing was performed by placing 1 milliliter of reagent on the surface of the dry film, under a watch glass for time as noted

Ketchup	24 hrs	5
50 % Ethanol	24 hrs	5
Olive Oil	24 hrs	5
2% Ammonia	24 hrs	5
Lemon Juice	24 hrs	5
Coffee @ 180F	24 hrs	5
Mustard	1 hr	5
Water	24 hrs	5
Motor Oil	16 hrs	5
Lighter Fluid	16 hrs	5
1% Tide Solution	16 hrs	5

1% Palmolive Solution	16 hrs	5
4% Sodium Hydroxide	1 hr	5
Tomato Juice	16 hrs	5
Nail Polish Remover	1 hr	5
Red Wine	24 hrs	5
Windex	24 hrs	5
Acetone	1 hr	5
Boiling Water	16 hrs	5
Grease/Cooking Oil	16 hrs	5
Vinegar	24 hrs	5

Rating: 1-poor  
 2-fair  
 3-good  
 4-very good  
 5-excellent



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### Rwj 8/22/09

**SAFETY** – During application, always wear eye protection, gloves and appropriate work clothing to minimize contact. Use a respirator and safety glasses at all times when spraying.

Explosion proof ventilation is required with special consideration for enclosed or confined areas. Use caution when handling flammable liquids and eliminate sources of ignition and uncovered containers from the work place. Vapours formed from this product may travel or be moved by air currents and ignited by pilot lights, light switches, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from the product.

Disposal of chemicals and their solutions should be done according to local, Provincial and Federal regulations.

Product Material Safety Data Sheets are available and should be consulted when handling products. These products are for industrial and professional use only; Application directions must be followed.

**WARRANTY** – Katilac Coatings Inc. warrants that its products are free from defects in manufacture for a period of one (1) year from date of purchase, if used prior to expiration date and applied and used in accordance with Katilac Coatings' most current published specifications applicable to such products. Katilac Coatings Inc. expressly disclaims all other warranties, express or implied, including the implied warranties of merchantability and fitness for purpose. Katilac Coatings Inc. disclaims all liability for incidental, consequential or indirect damages of any nature whatsoever. This warranty cannot be changed or modified whether by course of dealing, custom or trade or otherwise, unless agreed to in writing by Katilac Coatings Inc.