



## E7 Series PRIZM™ White Pre-Cat Lacquers

The E7 Series Prizm™ White Pre-Cat Lacquers are a line of white pigmented, solvent borne, one component, pre-catalyzed, alkyd/amino resin based conversion coatings. They are yellowing resistant, high hiding topcoats that feature fast dry and high build. They are specifically designed to be used in combination with KCI's E14 Omniprime™ in a high quality interior wood finishing system.

### SUGGESTED APPLICATIONS

- interior trim and millwork
- office furniture
- household furniture
- cabinets

### KEY PERFORMANCE FEATURES

- yellowing resistant
- excellent hiding
- high build
- fast dry
- ultra-low formaldehyde
- mar and scratch resistance
- chemical and moisture resistance
- excellent flow and levelling

### RELATED PRODUCTS

E14 Omniprime™ White Pre-Cat Primer  
844 Colorants

### PHYSICAL PROPERTIES

Available Sheens	10,25,35,50 & 90
Weight Solids	42% ± 2
Volume Solids	32% ±2
Viscosity	35-45" @ 25°C Ford 4
Specific Gravity	1.1100 +/- 0.01 gms/cc @ 25°C
VOC	639 g/l
Typical coverage	6-8 m <sup>2</sup> / ltr @ 1 mil dry

### ADDITIONAL CHARACTERISTICS

Catalyzation:	n/a
Pot-Life:	n/a
Reduction:	as required up to 20% by volume with lacquer thinners T4413, T4409, T4424
Retarder:	n/a
Clean-up:	T4420 215 Gun Wash Universal
Shelf-life:	1 year from date of manufacture

### Dry Times

26°C (~78°F) 50% RH	
To Touch	10 minutes
To Sand	30-60 minutes
To Stack/Pack	18-24 hours

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

**COLOUR DEVELOPMENT** – E7 Series Prizm™ products can be tinted up to 5% by volume with 844 series colorants. Intermix 1:1 with EK Series Katilac™ Pre-Catalyzed Lacquers for development of mid to deep tone colours.

**COATING PREPARATION** - Ensure product is stirred well and brought to room temperature before use. Product may be sprayed by conventional, airless and air-assisted airless spray and is gun ready. Thin as required up to 20% by volume with above specified lacquer thinners.

**SURFACE PREPARATION** - Wood surface should be clean, dry and free from any oil or grease. Sand surface smooth with 150-180 grit sand paper.

**APPLICATION** - This product is designed to be applied in ambient conditions of 12-32°C (~55-90°F) and below 50% relative humidity.

For easier primer application, seal routed MDF areas with a Katilac pre-catalyzed sealer or topcoat. Allow to dry 30-60 minutes at room temperature and sand coated areas with 240-400 grit sand paper. Primer the entire substrate with E14 Omniprime™ and allow to dry 30-60 minutes and sand entire surface with 240-320 grit sand paper.

Apply E7 Prizm™ in a full uniform coat at a rate of 4 to 5 mils wet. Dry for 1-2 hours at room temperature and sand the entire surface with 300-400 grit sand paper. Apply a second thin coat of Prizm™ at 3 to 4 wet mils.

Proper sanding is critical to produce a smooth finish and promote adhesion between the primer coat and the topcoat.

Total film thickness of the finished system (primer and topcoat) should not exceed 5 dry mils.

**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.

## E7 Series PRIZM™ White Pre-Cat Topcoats (cont'd)

### PERFORMANCE TESTING / FILM CHARACTERISTICS

All performance testing is based on a composite of ASTM, AWI, ANSI and KCMA 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 discoloration, 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

#### 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 discoloration, 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 E7 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)

- not valid for this class of coating
- see D9 Series Summit™ White Post-Cat for data

#### 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
- 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
1% Palmolive Solution	16 hrs	5
50% Ethanol	24 hrs	4
4% Sodium Hydroxide	1 hrs	4
Olive Oil	24 hrs	5
Tomato Juice	16 hrs	5
2% Ammonia	24 hrs	5
Nail Polish Remover	1 hr	3
Lemon Juice	24 hrs	5
Red Wine	24 hrs	5
Coffee @ 180°F	24 hrs	5
Windex	24 hrs	5
Mustard	1 hr	5
Acetone	1 hr	3
Water	24 hrs	5
Boiling Water	16 hrs	5
Motor Oil	16 hrs	5
Grease/Cooking Oil	16 hrs	5
Lighter Fluid	16 hrs	4
Vinegar	24 hrs	5
1% Tide Solution	16 hrs	5

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

**DISPOSAL** - 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.