



KU Series KATILAC ULTRA™ Clear Pre-Catalyzed Lacquers

The KU Series KATILAC ULTRA™ is a line of solvent borne, pre-catalyzed, alkyd/amino resin based conversion lacquers. They are water-white, yellowing resistant, ultra-low formaldehyde coatings specifically designed for high quality interior wood finishing. They can be used as a self-sealing system or in conjunction with EK6 KATILAC™ Pre-Catalyzed Sanding Sealer or EK8 KATILAC™ Vinyl Sealer.

SUGGESTED APPLICATIONS

- Interior trim and millwork
- Office furniture
- School and commercial furniture
- Institutional furniture
- Kitchen and bath components

KEY PERFORMANCE FEATURES

- Excellent clarity
- Yellowing resistant
- Fast dry
- Easy sanding
- Self-sealing
- Ultra-low formaldehyde
- Excellent mar and scratch resistance
- Excellent chemical and moisture resistance
- Excellent flow and leveling
- Exceeds KCMA/NAAWS System #2 standards

RELATED PRODUCTS

EK6 KATILAC™ Sanding Sealer
 EK8 KATILAC™ Vinyl Sealer
 B7812 ORACLE™ Premium Wiping Stain
 B7655 ORACLE™ Classic Spray Stain

PHYSICAL PROPERTIES

Available Sheens	0, 15, 25, 40, 90
Weight Solids	30% ±2
Volume Solids	23% ±2
Viscosity	25-30" @ 25°C Ford 4
Specific Gravity	0.9401 +/- 0.01 gms/cc @ 25°C
VOC	658 g/l
Typical coverage	8-10 m ² / ltr @ 1 mil dry

ADDITIONAL CHARACTERISTICS

Catalyzation	n/a
Pot-Life	n/a
Reduction	T4409 as required
Retarder	n/a
Clean-up	CA4420 Gun Wash
Shelf-life	1 year from date of manufacture

Dry Times (26°C and 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

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.

SURFACE PREPARATION - Wood surface should be clean, dry and free from any oil or grease. Moisture content of the wood should be 7-9%. Stains, colour coats, glazes etc. should be applied according to manufacturer's directions should be dried prior to application of sealers/topcoats. Multi-step colourant systems should be avoided unless they are thoroughly tested for adhesion and compatibility. All colour systems should be examined for colour fastness / fade resistance prior to use. For best results use Katilac stains, toners or colourant systems. Contact a Katilac Tech Service Representative for colour system recommendations.

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

Apply product in full uniform coats ideally applied at a rate of 3 to 4 mils wet. Total film thickness of the finished system should not exceed 4 dry mils. A normal finishing system consists of a

coat of sealer and 2 coats of topcoat. KU Series KATILAC ULTRA™ can be used as self-sealing or in conjunction with EK6 KATILAC™ Sanding Sealer or EK8 KATILAC™ Vinyl Sealer. Coating should be thoroughly dried and sanded smooth between coats. Sand with 240-320 grit professional finishing steared, silicon carbide sandpaper. It is recommended that the finished item be conditioned for 24 hours at room temperature prior to stacking and packing.

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.

KU Series KATILAC ULTRA™ Clear Pre-Catalyzed Lacquers (cont'd)

PERFORMANCE TESTING / FILM CHARACTERISTICS

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

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 hrs, water washed, dried, 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

B. Detergent & Water Resistance Test

- PASS: No signs of blistering, whitening, delamination, swelling

C. Heat Resistance Test

- PASS: No signs of discoloration, whitening, delamination or swelling

D. Hot/Cold Cycle Test

- PASS: 10 cycles with no signs of discoloration, blistering, cold cracking or any film failure

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 consists 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 KU 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

AWMAC / AWI (NAAWS Performance Standards Testing)

System # 2: Lacquer, Pre-Catalyzed

- Standard Score: 99/135
- KU Series score:127/135

Section A: Chemical Resistance Testing ASTM D1308

Vinegar	5	Red Wine	4
Lemon Juice	5	Windex	5
Orange Juice	5	Fantastic 409	5
Ketchup	5	Lysol	5
Coffee	5	33% Sulphuric Acid	5
Olive Oil	5	77% Sulphuric Acid	1
Boiling Water	5	28% Na ₄ OH	4
Cold Water	5	Gasoline	4
Nail Polish Remover	5	Murphy's Oil Soap	5
Household Ammonia	5	Vodka 100% Proof	5
VM&P Naphtha	5	1% Detergent	5
Isopropyl Alcohol	5	10% TSP	5

Rating: 1: Poor 2: Fair 3: Good 4: Very good 5: Excellent

Section B: Wear Resistance / ASTM D4060 Abrasion Resistance

Rating: 4/5

Section C: Cold Check Resistance / ASTM D1211

Rating: 5/5

Section D: Cross Hatch Adhesion /ASTM D3359

Rating: 5/5

TOTAL SCORE: 127/135

DISPOSAL - Disposal of chemicals and their solutions should be done according to local, provincial and federal regulations. 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.



Ver1/19 Supersedes all previous versions.
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