



AX Series WOODGUARD™ Interior/Exterior Waterborne Coating

Katilac's AX WoodGuard™ Series is an interior / exterior grade waterborne oil modified urethane. It is a single component, self-cross-linking system that is based on the latest waterborne emulsion technology. It provides a tough, durable finish that exhibits long lasting protection against the effects of mold, mildew, sunlight and moisture, as well as most household chemicals. It contains a broad spectrum UV absorber that provides long-term protection of light sensitive substrates. It can be used alone or in conjunction with Katilac's Fiber Set LC 2000™ fiber strengthening / stain blocking primer.

This product is part of the KCI Green Star ★™ family of environmentally friendly coatings. See the Green Star ★™ Eco-Friendly Product Info Sheet for further details.

<p>SUGGESTED APPLICATIONS</p> <ul style="list-style-type: none"> interior trim and millwork interior/exterior furniture exterior doors kitchen and bath components exterior windows trim and shutters <p>KEY PERFORMANCE FEATURES</p> <ul style="list-style-type: none"> excellent clarity / appearance excellent mar and scratch resistance excellent flow and levelling outstanding chemical and moisture resistance exterior durability low VOC / HAPs free non-flammable, water clean-up yellowing resistant self-sealing, easy sanding fast dry, low odour gun ready <p>RELATED PRODUCTS</p> <p>KCI Fiber Set LC 2000™ Stain Blocking Primer</p>	<p>PHYSICAL PROPERTIES</p> <table> <tr><td>Available Sheens</td><td>15,25,40,90</td></tr> <tr><td>Weight Solids</td><td>31% ± 2</td></tr> <tr><td>Volume Solids</td><td>28% ± 2</td></tr> <tr><td>Viscosity</td><td>100-200 cps" @ 25°C</td></tr> <tr><td>Specific Gravity</td><td>1.0198 +/- 0.01 gms/cc @ 25°C</td></tr> <tr><td>VOC</td><td>157 g/l</td></tr> <tr><td>Typical coverage</td><td>8-10 m² / ltr @ 1 mil dry</td></tr> </table> <p>ADDITIONAL CHARACTERISTICS</p> <table> <tr><td>Catalyzation:</td><td>n/a</td></tr> <tr><td>Pot-Life:</td><td>n/a</td></tr> <tr><td>Reduction:</td><td>max. 3% by volume with water</td></tr> <tr><td>Retarder:</td><td>n/a</td></tr> <tr><td>Clean-up:</td><td>water; flush equipment with alcohol</td></tr> <tr><td>Shelf-life:</td><td>1 year from date of manufacture</td></tr> </table> <p>Dry Times</p> <table> <tr><td>26°C (~78°F) 50% RH</td><td></td></tr> <tr><td>To Touch</td><td>10-20 minutes</td></tr> <tr><td>To Sand</td><td>45-60 minutes</td></tr> <tr><td>To Stack/Pack</td><td>18-24 hours</td></tr> </table> <p><small>Note: Drying times will decrease at higher temperatures/lower humidity and will increase at lower temperatures/high humidity</small></p>	Available Sheens	15,25,40,90	Weight Solids	31% ± 2	Volume Solids	28% ± 2	Viscosity	100-200 cps" @ 25°C	Specific Gravity	1.0198 +/- 0.01 gms/cc @ 25°C	VOC	157 g/l	Typical coverage	8-10 m ² / ltr @ 1 mil dry	Catalyzation:	n/a	Pot-Life:	n/a	Reduction:	max. 3% by volume with water	Retarder:	n/a	Clean-up:	water; flush equipment with alcohol	Shelf-life:	1 year from date of manufacture	26°C (~78°F) 50% RH		To Touch	10-20 minutes	To Sand	45-60 minutes	To Stack/Pack	18-24 hours
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COATING PREPARATION - Ensure product is stirred well and brought to room temperature before use. Do not reduce. WoodGuard™ is gun ready for conventional, airless and air-assisted airless and may be applied by brush or roller for small applications. Use only stainless steel or plastic components in areas of direct coating contact. Product may be tinted up to 5% (vol.) with 896 series WB colorants.

SURFACE PREPARATION - Wood surface should be clean, dry and free from any oil or grease. Pre-sanding of the wood is recommended in order to reduce grain raising and improve adhesion. Moisture content of the wood should be 7-9%. Strip old finished complete and remove all surface contaminates such as wax or oils. For best results, natural wood should be pre-treated with KCI's Fiber Set LC 2000™ prior to application of WoodGuard™. Fiber Set LC 2000™ strengthens the natural wood fibers and provides effective stain blocking layer. It may also be used after the application of KCI's Vista™ WB Stains before the application of WoodGuard™.

SPRAY EQUIPMENT RECOMMENDATIONS –

- Conventional Siphon Feed
 - Nozzle (0.060 to 0.080 inches)
 - Atomizing Pressure (25-40 psi)
- Standard Pressure Pot
 - Nozzle (0.060 to 0.080 inches)
 - Atomizing Pressure (25-40 psi)
 - Pot pressure (7-10 psi)
- HVLP (suction feed)
 - Nozzle (0.061 to 0.072 inches)
 - Atomizing pressure (30-40 psi)

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.

This product is freezable. Protect from freezing. Keep containers tightly closed and do not expose to temperature extremes.

AX Series WOODGUARD™ Interior/Exterior Waterborne Coating (cont'd)

APPLICATION - This product is designed to be applied in ambient conditions of 12-32°C (~55-90°F) and below 50% relative humidity. Staining should be done with B7350 Vista™ WB Stain.

New Work (Bare Wood) – For best results pre-sand wood with 180-280 grit sand paper. Spray, brush or roll a wet coat of Fiber Set LC 2000. Dry one hour and sand lightly with 320 grit sand paper. Apply first coat of AX WoodGuard™ at 4-5 mils wet. Dry 2-4 hours or longer if required at room temperature. Lightly scuff sand surface with 320 grip or Scotch Brite and apply second coat of AX WoodGuard™ at 4-5 mils wet. Dry a minimum of 18-24 hours prior to stacking, packing or installation work.

New Work (Stained Wood) – Apply Vista™ WB Stain via brush, roller, rag or low pressure spray (<30 psi). Wipe off excess stain with a clean cloth and dry the stain a minimum of 1 hour prior to over coating. Lightly scuff sand (320 grit or Scotch Brite). Spray, brush or roll a coat of Fiber Set LC 2000™. Dry 1 hour and scuff sand with 320 grit sand paper. Note: Application of Fiber Set LC 2000™ is optional when wood is stained but it serves to enhance the strength of the wood fiber and adds a stain blocking layer to the finished system.

Apply first coat of AX WoodGuard™ at 4-5 mils wet. Dry 2-4 hours or longer if required at room temperature. Lightly scuff sand surface with 320 grip or Scotch Brite and apply second coat of AX WoodGuard™ at 4-5 mils wet. Dry a minimum of 72 hours prior to stacking, packing or installation work.

For enhanced protection, a third coat of AX Woodguard™ may be applied following the above directions.

For best results the total dry film thickness should be kept in the 4-6 mil range.

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	No effect
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

Abrasion / Mar Resistance

Taber Abrasion (cs-17 / 1000 gms / 1000 cycles)	<60 mg loss
Hoffman Tester (loop stylus / load)	>150gms
Sward Hardness	>35
Konig Hardness	>90
Pencil Hardness	HB

Additional Chemical Resistance

- Solvent double rubs

Ethanol	>200
Isopropanol	>200
Methyl Ethyl Ketone	>200
Xylene	>200

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	Windex	24 hrs	5
Palmolive Sol.	16 hrs	5	Mustard	1 hr	5
50% Ethanol	24 hrs	5	Acetone	1 hr	4
4% NaOH	1 hrs	4	Water	24 hrs	5
Olive Oil	24 hrs	5	Boiling Water	16 hrs	5
Tomato Juice	16 hrs	5	Motor Oil	16 hrs	5
2% Ammonia	24 hrs	4	Grease/Oil	16 hrs	5
Nail Polish Rem.	1 hr	5	Lighter Fluid	16 hrs	5
Lemon Juice	24 hrs	5	Vinegar	24 hrs	5
Red Wine	24 hrs	5	1% Tide Sol.	16 hrs	5
Coffee @ 180°F	24 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.