

AQUA GUARD I

PURE ALIPHATIC URETHANE WATER BASED FINISH

Technical Data Sheet

DESCRIPTION:

A water based pure aliphatic urethane finish.
A clear water based coating formulated to provide a durable, solid protective film.

ADVANTAGES:

- Superior abrasion resistance
- Superior film hardness
- Non-yellowing aliphatic urethane
- Excellent gloss
- Excellent rubber burn resistance
- Water white dry film
- Low odor
- VOC compliant

PACKAGING:

Product is available in case of four (4) 1-gallon kits with aziradine cross linker.

COVERAGE:

600-700 sq. ft/ gal. Recoat window 3 - 18 hrs.

ASSOCIATED PRODUCTS:

- **Aziradine** cross linker
- **WP-3** Acrylic Sealer
- **VALSPAR** Paints

RELATED EQUIPMENT:

- Single disc floor machine, low speed (150–200 rpm).
17–20" diameter #100 and #120 grit abrasive disc screens.
- 24" push broom for sweeping and tacking
- Terry cloth towels for use as tack rags
- Putty knife or scraper
- K-100 E-Z way applicator and KV-4400 replacement pads.

SURFACE PREPARATION:

Note: Follow MFMA and NOFMA guide lines for acclimation time of wood prior to installation, sanding, and finishing.

DIRECTIONS:

NOTICE: THIS PRODUCT IS DESIGNED TO BE USED AS IS THEREFORE THINNING OR REDUCING WITH SOLVENTS IS NOT RECOMMENDED.

Previously coated floors

A test patch is strongly recommended to determine adhesion compatibility over a previous water base, or unknown finish.

- 1) Remove any masking tape or gum with a putty knife. Clean the floor of dirt, dust mop treatments, etc with a **neutral cleaner**.
- 2) Allow the floor to dry thoroughly.
- 3) Screen the floors with #100 grit screens (250 sq. ft per side) until the gloss is removed.
- 4) Tack rag the floor using **Water**.
- 5) Proceed to **Finish coats (back page)**.

GENERAL PROPERTIES:

		ASTM
Color	Water White	-----
Viscosity	30 - 40 cps	D1545
Weight/Gallon	8.6 ± 0.1	D1475
Solids	26+/- 1%	D1644
Freeze Thaw	5 cycles pass	D2243
VOC	<343 g/L	

MFMA TESTS:

Sanding	Pass
Hardness	Pass
Abrasion resistance	Pass
Flexibility	Pass
Coefficient of friction	Pass
Maintenance	Pass

CHEMICAL RESISTANCE:

Stain resistance	Pass
Alcohol resistance	Pass
Naphtha resistance	Pass
Cola resistance	Pass
Beer resistance	Pass
Perspiration resistance	Pass

Newly installed floors or sanded to bare wood

- 1) Screen the floor using #100 grit screens (250 sq. ft per side).
- 2) Vacuum, then tack rag the floor with **Water**.
- 3) Allow the floor to dry to a dull, gloss less surface.

Seal coat application

Do not use AQUA GUARD I Pure Urethane Finish to seal the floor.

- 1) With an EZ-way applicator, lambs wool applicator, or a foam pad seal the bare wood with **WP-3 Acrylic Sealer**.
- 2) Allow 3 - 4 hours dry with good ventilation for each coat.
- 3) Minimum of two coats of **WP-3 Acrylic Sealer** is recommended.
- 4) Remove raised grain with a #120 grit screen, then tack rag with **Water**.
- 5) Line marking paint can then be applied.

LINE MARKING:

Recommended paints

VALSPAR Gloss Enamel latex paints

- 1) Before using paint every color should be tested for compatibility, not just brands.
- 2) Apply line markings between the second and third coats. Follow the directions on the paint label for application.
- 3) Lay out the court with masking tape as required and apply the paint.
- 4) Allow the lines to dry for a minimum of 6 – 8 hours.
- 5) Abrade the lines lightly with #120 grit screens.

FINISH COATS:

- 1) Catalyze the **AQUA GUARD I Pure Urethane Finish** with the **Aziradine** 2 oz per gallon of finish.
- 2) Invert catalyzed finish container bottom over top 6 – 10 times.
- 3) With an EZ way applicator, lambs wool applicator, or a foam pad apply **AQUA GUARD I Pure Urethane Finish** going with the grain, do not puddle finish.
- 4) Allow 3 - 18 hours dry before recoating. Finish with 2 more coats of **AQUA GUARD I Pure Urethane Finish**.
- 5) Clean up with **water**.
- 6) If cured over 24 hours abrade floor with a #120 grit screen, do not use #100 grit here.
- 7) Allow 24 hours cure before light traffic and 3 - 5 days before athletic activities.

Adequate ventilation is imperative during the curing process. Dry times will vary based upon the drying conditions. Do not apply when temperature is above 95 F or below 65 F, or when humidity is above 80%.

n

MAINTENANCE:

- 1) Use **Water** for daily dust mopping of the floor.
- 2) Use a **Neutral Cleaner** for more stubborn dirt removal. See label for instructions.
- 3) Try to limit street shoe traffic as much as possible. Place walk off mats at all entrances to collect dirt and grit that otherwise would be tracked onto the floor. Clean mats often. Avoid dragging tables and chairs across the floor, which can cause excess damage to the floor.

TROUBLE SHOOTING:

Slow dry:	Low curing temperatures, High humidity, Lack of ventilation, and air movement after application.
Streaks:	Product applied too thin.
Fisheyes:	A foreign material on the surface, like oil, grease, or silicone.
Bubbling:	Overworking the product with applicator, shaking the finish before applying, High temperatures during application.
Peeling:	Improper floor preparation.
Dirt particles:	Applicator Not "De-Fuzzed" loose fibers in the film, Room vents not sealed during the application.
Screen marks:	Using a too aggressive screen between coats.
Hazy Film	High humidity during drying.
Steel Wool pads	DO NOT USE, steel fibers will remain in the floor and will rust when coated.

String Mops	DO NOT USE, mops apply unevenly and leave behind swirl marks.
Air Movement	Close all doors, windows, and turn off vent fans and AC fans. Premature curing can occur disrupting flow and leveling.
Stained Wood	DO NOT USE AQUA GUARD I over solvent stained wood, unless the stain has already been sealed.
Top coat	DO NOT top coat AQUA GUARD I with an oil based finish.

CAUTION:

- 1) Avoid prolonged breathing of vapors or mist.
- 2) Open doors and windows to ensure fresh air entry during application and drying. If necessary wear respiratory equipment (NIOSH/ MSHA TC-23C or equivalent).
- 3) Avoid skin contact, eye contact, or clothes contamination.

FIRST AID:

- 1) Skin contact wash with soap and water.
- 2) Eye contact flush with water for 15 minutes and get medical attention.
- 3) If swallowed do not induce vomiting, get medical attention immediately.
- 4) If experience watering eyes, headaches, dizziness, nose or throat irritation; increase the flow of fresh air, or leave the area.

NOTICE:

- 1) Long term overexposure to solvents have been associated with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- 2) Contains a substance known to the state of California to cause cancer.
- 3) In case of spill dilute with water and mop up with a damp towels or rags.

DISPOSAL:

All label warnings must be observed until the container has been commercially cleaned, reconditioned, or disposed of in accordance with local government regulations.

Refer to Material Safety Data Sheet for further safety and handling information.

**For Emergency Medical Information call
1-888-345-5732**

KEEP OUT OF REACH OF CHILDREN

© Copyright 2007 Valspar Corporation. All rights reserved.

TDS-AquaGuardI | Rev 05/31/07 ly

WARRANTY STATEMENT | IMPORTANT: The data on this sheet represent typical values obtained by the methods indicated. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. Unless Valspar agrees otherwise in writing, **VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Unless Valspar agrees otherwise in writing, Valspar's only obligation for any defect in this product under any warranty that Valspar provides or under any other legal theory will be to replace the defective product, or to refund its purchase price, at Valspar's option. Revision E: 12 FEB 2002