

## ZAR® Exterior Water-Based Polyurethane

## MANUFACTURER

## UNITED GILSONITE LABORATORIES

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## PRODUCT DESCRIPTION

ZAR EXTERIOR WATER-BASED POLYURETHANE – FOR EXTERIOR USE ONLY – is a rich amber colored, environmentally safe, clear wood finish specially formulated to protect and beautify exterior wood surfaces exposed to direct sunlight. Containing ultraviolet radiation absorbers and anti-oxidants, ZAR is the ultimate in exterior protection. ZAR's full-bodied formula brushes on like a conventional polyurethane for maximum durability and beauty. ZAR Exterior Polyurethane goes on milky but dries to a rich, amber color. Non-toxic. Child safe when dry. Meets all environmental standards for low emission of solvent vapors.

- Contains ultraviolet radiation absorbers for the ultimate exterior protection for wood exposed to direct sunlight and harsh extremes of weather
- Light amber finish
- Recommended by leading door manufacturers
- Excellent marine grade finish

## BASIC USES

Ideal for wooden marine surfaces (above water-line), stained exterior doors – including fiberglass and steel doors, natural wood siding, patio furniture, fences, gables and other wood surfaces exposed to direct sunlight and the harsh extremes of weather.

## LIMITATIONS

Do not apply over wood fillers or finishes containing wax or stearates. Do not use steel wool. Do not thin.

## TECHNICAL DATA

## COMPOSITION:

Waterborne oil modified urethane

## SHEEN:

Gloss 90+  
Semi-Gloss 70 ± 0.3  
Satin 45 ± 0.3

## % WEIGHT SOLIDS:

30-32%

## % VOLUME SOLIDS:

29-30%

## DENSITY (LBS./US GAL.):

8.5 ± 0.1

## VISCOSITY:

60-65 KU @77°F

## pH:

8.5 +.2

## COLORS:

N/A

## DRY TIME:

- To touch: 30 minutes
- To recoat: 2 hours
- Maximum use: 24 hours

**Note:** Maximum cure and dry time will be prolonged when slightly humid and damp, cool conditions prevail.

## CLEAN UP:

Warm soapy water  
Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

## COVERAGE (SQ. FT./US GAL.):

• 500-600 sq. ft./gal.

**Note:** Actual coverage will vary depending upon application method, surface texture and porosity.

## RECOMMENDED FILM THICKNESS/COAT:

1-1.5 dry mils/coat

## FLASH POINT:

N/A

## SHELF LIFE:

3 Years

## FREEZE/THAW:

Protect from freezing

## CONTAINER SIZES:

One pint (US), one quart (US) and one gallon (US) cans

## VOC

Does not exceed 275 g/L

## TINTING

N/A

## THINNING

Do not thin.

## SURFACE PREPARATION

**Exterior Surfaces of Stained Steel Doors and Fiberglass Doors:** Wood Stain must be thoroughly dry. Do not sand uncoated stained surface.

**New Wood:** Sand smooth using fine sandpaper, vacuum sanding dust. Wipe using a tack-cloth to remove any remnants of dust prior to application. Do not use steel wool. If open-grained woods are to be filled, use a filler that does not contain stearates or waxes such as ZAR Wood Patch or ZAR Trowelable Wood Patch.

**Old Clear Finishes in Good Condition:** Remove grease, dirt, and wax. Sand lightly in the direction of the grain to remove any gloss. Do not use steel wool. Vacuum all sanding dust. Wipe using a tack-cloth to remove any remnants of dust prior to application.

If the old finish contains wax or stearates,



## DRY TIME:

30 Minutes  
Recoat 2-3 Hours



## CLEAN-UP:

Soap and Water



## COVERAGE:

3 Coats



## SPREAD RATE:

500-600 Sq.  
Ft./Gallon

regardless of condition, remove completely. Test ZAR Exterior Waterbase Polyurethane in an inconspicuous area for compatibility.

**Old Clear Finishes in Poor Condition, Lacquer or Shellac:** Remove completely. Do not use steel wool. Sand and vacuum all sanding dust. Wipe using a tack-cloth to remove any remnants of dust prior to application.

**WARNING**

If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

**APPLICATION**

Apply when air and surface temperatures are between 60°F and 90°F and the relative humidity is less than 50%. Stirring not required for Gloss. For Satin and Semi-Gloss stir thoroughly before and during application. Do not shake! Use a clean synthetic fiber or foam brush. Do not apply with a roller! To ensure satisfactory results always test ZAR Exterior Waterbase Polyurethane in an inconspicuous area before completing entire job. Apply thin coats at a rate of 500-600 sq.ft per gallon in the direction of the grain. Do not over brush or trap air bubbles in the finish. Sand lightly between coats (except fiberglass or grained surfaces) with a fine grit sandpaper. Remove all sanding dust with a vacuum or tack cloth. Apply 3 coats.

**Note:** When staining an exterior door with an interior wood stain, use a quality oil-based stain such as ZAR Wood Stain or use an interior water-based wood stain. Allow oil-

based stains to dry for a minimum of 48 hours. For water-based stains, follow manufacturer's directions. Do not apply ZAR Polyurethane over paint. To ensure satisfactory results always test ZAR Exterior Waterbased Polyurethane in an inconspicuous area before completing the entire job.

**MAINTENANCE**

Exterior durability depends on the amount of exposure to the sun and weathering conditions. Inspect the finish yearly for signs of wear. If minimum deterioration has occurred and no visible damage is detected, clean the surface thoroughly, sand lightly with fine sandpaper and apply another coat.

**CAUTION**

CONTAINS SMALL AMOUNTS OF NMETHYL PYRROLIDONE. Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes nose, throat, skin and eye irritation. May be harmful if absorbed through skin. Harmful if swallowed.

**NOTICE:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Use only with adequate ventilation. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Do not get in eyes, on skin or clothing. Wash thoroughly after handling.

KEEP OUT OF REACH OF CHILDREN.  
DO NOT TAKE INTERNALLY  
CLOSE CONTAINER AFTER EACH USE.  
KEEP FROM FREEZING.

**FIRST AID**

**EYES:** Flush immediately with large amounts of water for at least 15 minutes. Consult a physician if irritation persists.

**SKIN:** Wash affected area with soap and water. If irritation persists consult a physician.

**INGESTION:** Seek medical attention if individual is drowsy or unconscious. Do not give anything by mouth. Place individual on the left side with head down. Contact a physician, medical facility or poison control center for advice about whether to induce vomiting.

**INHALATION:** Remove to fresh air.

**WARNING!** This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

ZAR Exterior Waterbased Polyurethane meets all environmental standards for low emissions of solvent vapors.

**DANGER – RAGS, STEEL WOOL OR WASTE SOAKED WITH ZAR EXTERIOR WATER-BASED POLYURETHANE MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.**

For additional health and safety information please refer to the "Materials Safety Data Sheet".



Exterior Water-Base Polyurethane	Gloss	Semi-Gloss	Satin
1 PT. 6/Case .....	32611	34211	32711
1 QT. 4/Case .....	32612	34212	32712
1 GAL. 2/Case .....	32613	34213	32713

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