

# MINWAX® Technical Data Sheet

## MINWAX® Fast-Drying Polyurethane

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### DESCRIPTION:

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Minwax® Fast-Drying Polyurethane is a clear, oil-based, durable protective finish.

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### RECOMMENDED USE:

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It provides long lasting protection and beauty to interior wood surfaces such as furniture, cabinets, doors and floors. Its superior durability makes it ideal for use on all your wood surfaces. For exterior use, we recommend Helmsman® Spar Urethane.

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### SURFACE PREPARATION:

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**WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

1. Surface must be dry and free of old finishes in poor condition, paint, wax, grease, polish, dirt or other foreign matter.
2. Sand to obtain a smooth, uniform surface. Remove all dust with a cloth dampened with mineral spirits.

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### APPLICATION NOTES:

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#### Product Preparation

- Stir Minwax® Fast-Drying Polyurethane before and during use to eliminate settling on the bottom of the can. Stir in such a manner as to rotate the product from the bottom to the top of the can. **NEVER SHAKE.**

#### Application

1. Apply a THIN coat of Minwax® Fast-Drying Polyurethane using a high quality natural bristle or foam brush.
2. Let dry 4-6 hours or until dry to touch. Lightly sand entire surface with 220 grit sandpaper. For floor projects, use square buff orbital or disk-type sander with 220 grit sandpaper or the equivalent grit pad or screen (specifically designed for sanding between coats) to ensure proper adhesion and an even finish. Do not use a belt or drum-type sander for sanding between coats.
3. **Note:** Sanding residue should be dry and powdery. If sanding residue is gummy or sandpaper/screen/pad clogs, stop sanding and allow for additional dry time. Remove all sanding residue and follow precautions for safe disposal located on the cautionary panel. Accumulated sanding residue may spontaneously catch fire if not immediately disposed of in a sealed, water-filled metal container. Over-application, low temperature and high humidity will increase cure time and may increase the risk of spontaneous combustion of the sanding residue.
4. Apply a second coat. If a third coat is desired, repeat step 5 before application.
5. After final coat, allow 24 hours before light use.

When used on wooden floors, use a lambswool or synthetic pad applicator or a natural bristle brush and maintain a wet edge to avoid lap marks. For maximum durability, we recommend three coats. Avoid

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heavy traffic and replacing of furniture for 72 hours after the final coat. When replacing furniture, do not slide. Do not install rugs or clean floors for 7 days.

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### DRY TIME:

Dry times and coverage rates are based on good ventilation, temperature of 77°F and 50% relative humidity. Lower temperature, higher humidity, lack of ventilation or application of thick coats will extend dry time. Slight ambering may be experienced when polyurethane is applied over light-colored wood surfaces. Always spot test on an inconspicuous area to ensure satisfactory results. For light-colored wood surfaces, we recommend protecting with Minwax® Polycrylic® Protective Finish.

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### MAINTENANCE:

To clean surfaces protected by Minwax® Fast-Drying Polyurethane, we recommend a gentle cleaner such as Minwax® Wood Cleaner.

**DANGER:** Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

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### CLEANUP/STORAGE:

For easy clean-up use mineral spirits or paint thinner. Do not store near heat, sparks, open flames or other sources of ignition. Close container after each use. Store only in original container. Keep out of reach of children.

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### SAFETY:

#### CAUTIONS:

**WARNING! COMBUSTIBLE! VAPOR HARMFUL. IRRITATES EYES, SKIN, AND RESPIRATORY TRACT.**

**CAUTIONS:** CONTAINS ALIPHATIC HYDROCARBONS. Contents are COMBUSTIBLE. Keep away from heat and open flame. **VAPOR HARMFUL.** Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. **Avoid contact with eyes and skin.** Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water for 15 minutes and get medical attention. For skin contact, wash thoroughly with soap and water. In case of respiratory difficulty, provide fresh air and call physician. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.

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**DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.**

Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

**DANGER:** Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

**Special Note:** This product has been formulated to comply with environmental regulations limiting V.O.C. (Volatile Organic Compound) content. It contains higher concentrations of quality resins which lead to a thicker consistency than ordinary polyurethanes. Be sure to follow label directions carefully, especially as they pertain to coverage rates and the application of thin coats. Maximum V.O.C. 450 grams/liter. Thinning is not recommended. Non-Photochemically reactive.

**PHYSICAL PROPERTIES:**

			Testing method:
Resin type:	Linseed Oil-modified Polyurethane		
Solvent:	Mineral spirits		
Odor:	Mild Hydrocarbon		
Sheen:	Gloss	90% minimum	ASTM D 523
	Semi-gloss	40 – 50%	ASTM D 523
	Satin	15 – 25%	ASTM D 523
No. of coats:	2-3		
Dry-time:	Recoat: 4-6 hours; Final coat: 24 hours (light use)		ASTM D 1640&
Applicator:	Natural bristle or foam brush.		
VOC (grams/liter):	450 maximum		ASTM D 3960
Coverage (sq. ft. 1 gal.):	600 -700		
	Pounds/gallon:	Gloss	7.27 – 7.47
		Semi	7.39 – 7.59
		Satin	7.43 – 7.63
Viscosity (centipose):	Gloss	60 -100 cps	
	Semi	150 – 250 cps	
	Satin	150 – 250 cps	