

MASTERLINE® Technical Data Sheet

MASTERLINE® Water-Based Polyurethane

DESCRIPTIONS:

Masterline® Water-Based Polyurethane is a single-component, durable wood floor finish suitable for residential and commercial uses. A less than 275 VOC water-based formulation allows for a fast drying finish. With a 2-hour recoat time you can finish two coats in one day. Masterline Water-Based Poly can be applied by roller or T-bar and exhibits outstanding flow and leveling. Available in Satin, Semi-Gloss and Gloss.

RECOMMENDED USE:

Designed for interior residential and commercial use on hardwood floors.

SURFACE PREPARATION:

NATURAL FLOORS: Sand and prepare floor according to NWFA recommended methods. Finish abrading with a 120 or 150 grit pad or equivalent. Do not use steel wool. Vacuum thoroughly and tack floor with a slightly water-dampened cloth to remove all dust. Apply 1 coat of DuraSeal® Fast Dry Sanding Sealer and 2 coats of Masterline® Water Based Polyurethane Floor Finish.

NOTE: If applying to white oak, use 2 coats of DuraSeal® DuraClear™ Sealer.

STAINED FLOORS: Sand and prepare floor according to NWFA recommended methods. Finish abrading with a 100 grit pad or equivalent. Do not use steel wool. Apply DuraSeal® Quick Coat Penetrating Finish according to label directions. Apply 2 coats of Masterline® Water Based Polyurethane over thoroughly dried stain.

PREVIOUSLY FINISHED FLOORS: Note: Do not apply over wax, lacquer, stains or shellac containing wax or stearates.

Be certain floor is free from all wax or oily residue. Clean and abrade floor using the DuraSeal® Pre-Treat System. Do not use steel wool. Vacuum thoroughly and tack floor with a slightly water-dampened cloth to remove all dust. Apply 2 coats of Masterline® Water Based Polyurethane. Masterline® Water Based Polyurethane will adhere to most finishes after proper preparation. Always prepare a sample or test area to determine compatibility.

APPLICATION NOTES:

Be certain all material is at room temperature. Use a synthetic bar applicator to provide the smoothest finish. A 1/4" or 3/8" nap roller can also be used if desired. Best results are achieved when ambient temperatures are between 50° and 90° F, and humidity below 80%.

1. Pour a 5"-6" wide line of finish along the starting wall, going with the grain of the wood.
2. Using a clean, dampened applicator, pull the finish toward the opposite wall going with the grain of the wood. Holding the applicator at a "snowplow" angle will maintain a wet edge at all times.
3. As you approach the end of the run, turn the applicator toward you and pad out excess material parallel to the wet edge.
4. Feather out all turns, as well as all starting and stopping points.
5. Apply Masterline® water-based polyurethane at 500 sq.ft. per gallon to achieve proper film build and prevent lapping and application marks.
6. Allow first coat to dry 2-3 hours. Extended dry time is required with high humidity and low temperature conditions.

MASTERLINE® Technical Data Sheet

MASTERLINE® Water-Based Polyurethane

7. Abrade floor lightly with a used DuraSeal® Pre-Treat pad. Vacuum thoroughly and tack floor with a slightly water-dampened cloth to remove all dust. Abrading is not required for additional coats if the finish is applied within 8 hours of the previous coat.

DRY TIME:

Light foot traffic is acceptable after 24 hours. Do not expose the finish to rugs, cleaners, spills or heavy traffic for one week. Dry times are based on application of thin coats, good ventilation, average temperature of 77°F and 50% relative humidity. Lower temperature, higher humidity, lack of air movement or excessive application will extend dry time.

MAINTENANCE:

Use walk-off mats at all entrance doorways to keep dirt and grit to a minimum. Sweep or vacuum daily and damp wipe as needed with DuraSeal® Hardwood Floor Cleaner. Do not use all-purpose cleaner/degreaser products.

CLEANUP/STORAGE:

Clean application tools with warm water immediately after use.

STORAGE: Store at room temperature. If stored at high temperature, cool to room temperature before use. Keep from freezing. Product is unusable if frozen.

SAFETY:

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. FOR PROFESSIONAL USE ONLY! Make sure material is at room temperature. Invert container gently several times before each use to thoroughly mix product. Best results are obtained at ambient temperatures between 50° and 90°F and at humidities below 80%. A T-bar applicator is recommended, although a premium ¼" or 3/8" nap roller may be used. Proceed based on floor type below.

For Wood Substrates Only

CAUTIONS

1-METHYL-2-PYRROLIDINONE CONTAINS MATERIAL THAT MAY CAUSE ADVERSE REPRODUCTIVE EFFECTS AND MAY ADVERSELY AFFECT THE DEVELOPING FETUS BASED ON ANIMAL DATA.

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. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.

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. FOR PROFESSIONAL USE ONLY. SEE MATERIAL SAFETY DATA SHEET.

Rev. 0

5/2016

MASTERLINE® Technical Data Sheet

MASTERLINE® Water-Based Polyurethane

PHYSICAL PROPERTIES:

			<u>Testing method:</u>
Resin type:	Urethane		
Solvent:	Water, 1-methyl-2-Pyrrolidone, Glycol Ether		
Odor:	Mild Amine		
Luster (@ 60°):	Satin	24 +/- 6	ASTM D 523
	Semi-Gloss	56 +/- 6	ASTM D 523
	Gloss	90 minimum	ASTM D 523
No. of coats:	2 - 3		
Dry-time:	Recoat:	2 hours;	ASTM D 1640 &
	Final coat:	24 hours (light use)	Gardner circular
Dry film thickness:	0.6 mil/coat		
Flash point:	>212°F (SETAFLASH*)		SETAFLASH*
			ASTM D 3828
Applicator:	T-Bar, Synthetic pad or Roller		
VOC (grams/liter):	275 maximum		ASTM D 3960
Coverage (sq. ft. /gal):	Approx. 500-600		
% Solids:	29.0 – 31.0		ASTM D 2369
Pounds/gallon:	8.25 – 8.65		
pH:	7.00 – 9.00		
Viscosity (centipoise):	90 – 130		

*SETAFLASH is a registered trademark of Stanhope-Seta Limited.

PRODUCT INFORMATION:

SHEEN	SIZE	SKU	SIZE	SKU
SATIN	GALLONS	994110000	FIVES	994510000
SEMI GLOSS	GALLONS	994120000	FIVES	994520000
GLOSS	GALLONS	994100000	FIVES	994500000