



# EVOLUTION

## WATERBORNE FLOOR FINISH

### 1YB.202 SATIN / YB.204 SEMI-GLOSS (1YB.200 HARDENER)

#### Features

- Optional Hardener
- High Solids Content
- Self-Leveling Formulation
- Resists Marring & Scuffing
- Resists Household Chemicals
- Premium Durability and Hardness
- Self-Sealing

#### Recommended For

Commercial Floors, Interior Hardwood Floors, Trim, and Molding & Doors

#### General Description

Lenmar® Evolution, Premium Waterborne Floor Finish is a revolutionary concept in waterborne coatings. With unsurpassed hardness, durability, mar and scuff resistance Evolution is the equal to all two component urethane systems, without adding hardener. While it is possible to finish the floor as a one component system, gaining all the benefits of a two component, isocyanate-cured urethane, the addition of the Evolution hardener will offer better alcohol and stain resistance. Ideal as a high-end commercial or residential floor finish, Evolution maintains all the benefits of waterborne systems, including quick-drying, self-leveling and VOC compliance.

#### Limitations

- Do not apply when temperatures are over 95 °F (35 °C), below 65 °F (18.3 °C), or when relative humidity is higher than 80%.
- Do not apply Evolution products over any floor that has been previously maintained with wax or oil.

#### Product Information

##### Colors — Standard:

Clear - Satin: 15 - 20 units @60°  
Clear - Semi-Gloss: 35 - 45 units @60°

##### — Tint Bases:

N/A

##### — Special Colors:

N/A

##### Certification:

The products supported by this data sheet contain a maximum of 275 grams per liter VOC /VOS (2.29 lbs/gal.) excluding water & exempt solvents.

This product is compliant under the Ozone Transport Commission regulations as a Varnish.

##### Technical Assistance:

For Technical Assistance please contact your authorized Lenmar® Dealer/Distributor, your Lenmar® sales representative, Technical Service at 1-800-225-5554, or visit [www.lenmar-coatings.com](http://www.lenmar-coatings.com).

##### Technical Data

##### Clear

Vehicle Type	Polyurethane						
Pigment Type	N/A						
Weight Solids	31% ± 1.0%						
Volume Solids	28% ± 1.0%						
Coverage per Gallon at Recommended Film Thickness	450 Sq. Ft.						
Recommended Film Thickness	<table border="0"> <tr> <td>– Wet</td> <td>2 - 3 mils</td> </tr> <tr> <td>– Dry</td> <td>0.6 - 0.8 mils</td> </tr> </table>	– Wet	2 - 3 mils	– Dry	0.6 - 0.8 mils		
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– Dry	0.6 - 0.8 mils						
Depending on surface texture and porosity.							
Dry Time @ 75°F (23.8°C) @ 50% RH	<table border="0"> <tr> <td>– Tack Free</td> <td>2 Hours</td> </tr> <tr> <td>– To Sand/Screen</td> <td>4 Hours</td> </tr> <tr> <td>– To Recoat</td> <td>Within 4 – 6 Hours</td> </tr> </table>	– Tack Free	2 Hours	– To Sand/Screen	4 Hours	– To Recoat	Within 4 – 6 Hours
– Tack Free	2 Hours						
– To Sand/Screen	4 Hours						
– To Recoat	Within 4 – 6 Hours						
High humidity and cool temperatures will result in longer dry, recoat and service times.							
Dries By	Chemical Reaction						
Viscosity	25 ± 5 sec (#4 Ford)						
Flash Point	>200°F						
Gloss / Sheen	See Colors - Standard						
Surface Temperature at Application	<table border="0"> <tr> <td>– Min.</td> <td>65° F</td> </tr> <tr> <td>– Max.</td> <td>95° F</td> </tr> </table>	– Min.	65° F	– Max.	95° F		
– Min.	65° F						
– Max.	95° F						
Thin With	Do Not Thin						
Clean Up Thinner	Water						
Weight Per Gallon	8.5 – 8.7 lbs						
Storage Temperature	<table border="0"> <tr> <td>– Min.</td> <td>50° F</td> </tr> <tr> <td>– Max.</td> <td>90° F</td> </tr> </table>	– Min.	50° F	– Max.	90° F		
– Min.	50° F						
– Max.	90° F						

##### Volatile Organic Compounds (VOC)

244 Grams/Liter    2.04 Lbs./Gallon

## Evolution Waterborne Floor Finish 1YB.202 (Satin) / 1YB.204 (Semi-Gloss)

### Surface Preparation

**New Floors:** Sand and prepare the floor using current, recommended NWFA guidelines. All surfaces must be free of contaminants, such as dirt, grease, wax and excessive moisture content. Make the final cut with 100-120 grit sandpaper and screen with a #100/120 grit screen. Remove all dust with a broom or vacuum, and tack surface with a clean, dry cloth.

**Recommended finishing System:** Apply Lenmar® QuickStain, according to label and/or product data sheet. Run test sample of the stain under the Evolution system to ensure adhesion. Allow to dry completely before continuing the finishing process. If not using a stain, seal with Lenmar® RapidStain, ECHO sealer, or Evolution without hardener. The application system should be one coat of sealer (or the QuickStain and 2 coats of the selected sheen from the Evolution line.

**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](http://www.epa.gov/lead).

### Application

Shake Lenmar® Evolution products before use. Wet film thickness of the applied coating will directly affect the dry times and recoatability. For best results, apply Evolution products with a heavy-weight T-bar or 1/4" dove roller (application with natural bristle brush or lambswool should be tested before use). Pour a 6" wide stream of finish along the starting wall. Cut-in using natural bristle brush along the starting wall. After cut-in, hold the T-bar applicator at a slight angle and snowplow the finish up and down the entire floor with the grain. Maintain a wet edge. Apply at correct spread rate and allow to dry. Apply all coats of Evolution in one direction and only with the grain. Spread rate over raw wood should be a minimum of 450 square feet. Application should be 2 – 3 wet mils. Use only with adequate ventilation. Minimize air movement during application and for one hour after to improve flow and leveling. Adverse weather conditions of temperature and humidity can extend normal dry times.

Allow 4 hours before screening/sanding. Properly abrade the floor with a maroon conditioning pad and strips or with comparable screens. If finish has dried more than 24 hours, screen with new 120 grit screens. Sweep, vacuum and tack surface with a cloth dampened with water. Allow water to evaporate.

Recoat with a second coat of Evolution after screening/sanding, no more than two coats in one day. Apply third and final coat the next day. Add 1YB.200B hardener to the final coat (at a 10:1 mix ratio). One can of hardener (12 ounces) is designed to catalyze one gallon. A measuring cup is included for mixing amounts less than one gallon. After addition of hardener shake 30 - 45 seconds, then wait 10 minutes before using. Do not cap the blended material once the hardener has been incorporated. Follow the same application procedure outlined above; and pay special attention to limiting air movement over the surface for the first hour.

Application of this product over shellac, lacquer or stearedated coatings is not recommended.

**Screen and Recoat:** Screen floors with new 120 grit screens. All surfaces must be free of contaminants, dirt, and dust. Sweep, vacuum and tack surface with a damp cloth. NOTE: Evolution will adhere to most finishes after proper preparation. Always prepare a test area or sample piece to insure compatibility.

Follow application procedures outlined above. Recommended application: One coat of Evolution of the selected sheen.

**Note:** Do not apply Evolution products over any floor that has been previously maintained with wax or oil. An adhesion test is recommended to determine coating compatibility over a previous waterborne or unknown finish.

**Cure:** Allow the Evolution system 48 hours before light traffic. Full cure will be reached in 7 days. Depending on application thicknesses and ambient conditions these cure times will vary. Good ventilation is critical for the curing process. Do not apply when temperatures are over 95°F, below 65°F, or when relative humidity is higher than 80%. Floors will be susceptible to scuffing and marring in the first 7 days. Do not place rugs or mats prior to full cure.

**Maintenance:** Vacuum or dust mop regularly. Do not use any liquid cleaners other than water for the first 2 weeks. After that, neutral-based floor cleaners should be used which do not leave a residue behind.

### Clean Up

Clean up with water.

USE COMPLETELY OR DISPOSE OF PROPERLY. **Local disposal requirements vary; consult your sanitation department or state-designated environmental agency on disposal options**

### Environmental Health & Safety Information

**IMPORTANT:** Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

**CAUTION:** All floor enamels may become slippery when wet. Where non-skid characteristics are desired, a small amount of clean sand may be added. Stir often during application.

**Use only with adequate ventilation.** Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer's directions for respirator use. Close container after each use. Wash thoroughly after handling.

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

**FIRST AID:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

**IN CASE OF SPILL –** Absorb with inert material and dispose of as specified under "Clean Up".

**KEEP OUT OF REACH OF CHILDREN  
PROTECT FROM FREEZING  
For Wood Substrates Only**

**READ ALL DIRECTIONS BEFORE USE.  
UNDERSTAND ALL DANGERS WITH THIS  
PRODUCT PRIOR TO USE.**

**Refer to Safety Data Sheet for  
additional health and safety information.**