



ECHO 1 COMPONENT

WATERBORNE URETHANE FINISH

1YB.104 SATIN / 1YB-106 SEMI-GLOSS/
1YB.108 GLOSS

Features

- Approved by M.F.M.A.
- Single Component
- Self-Sealing
- Slight Amber Hue
- VOC Compliant
- 29% Solid Content
- Superior Flow & Leveling
- Easy Warm Water Clean-up

Recommended For

Commercial Floors, Residential Floors, Gymnasiums/Sports Floors, Baseboards & Moldings, and Interior Doors & Hand Rails.

General Description

Echo One Component Waterborne Urethanes combine the strength and appearance of traditional oil-modified polyurethanes, with many of the required properties of today's waterborne floor finishes.

Limitations

Product Information																																																																												
<p>Colors — Standard: Clear</p> <p>— Tint Bases: N/A</p> <p>— Special Colors: N/A</p> <p>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.</p> <p>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.</p>	<table border="1"> <thead> <tr> <th colspan="2">Technical Data</th> <th>Clear</th> </tr> </thead> <tbody> <tr> <td>Vehicle Type</td> <td colspan="2">Waterborne Urethane</td> </tr> <tr> <td>Pigment Type</td> <td colspan="2">N/A</td> </tr> <tr> <td>Weight Solids</td> <td colspan="2">29% ±1.0%</td> </tr> <tr> <td>Coverage per Gallon at Recommended Film Thickness</td> <td colspan="2">500 – 550 Sq. Ft.</td> </tr> <tr> <td>Recommended Film Thickness</td> <td>– Wet</td> <td>3.0 mils</td> </tr> <tr> <td></td> <td>– Dry</td> <td>1.4 mils</td> </tr> <tr> <td colspan="3">Depending on surface texture and porosity.</td> </tr> <tr> <td rowspan="4">Dry Time @ 77°F</td> <td>– Tack Free</td> <td>30 Minutes</td> </tr> <tr> <td>– To Sand</td> <td>2 Hours @ ambient temp</td> </tr> <tr> <td>– To Recoat</td> <td>3 Hours</td> </tr> <tr> <td>– To Full Cure</td> <td>7 Days</td> </tr> <tr> <td colspan="3">High humidity and cool temperatures will result in longer dry, recoat and service times.</td> </tr> <tr> <td>Dries By</td> <td colspan="2">Evaporation/Coalescence</td> </tr> <tr> <td>Viscosity</td> <td colspan="2">15 – 25 Seconds (#2 Zahn)</td> </tr> <tr> <td>Flash Point</td> <td colspan="2">>200°F</td> </tr> <tr> <td>Gloss / Sheen</td> <td colspan="2">Satin/Semi-Gloss/Gloss</td> </tr> <tr> <td>Surface Temperature at Application</td> <td>– Min.</td> <td>65°F</td> </tr> <tr> <td></td> <td>– Max.</td> <td>95°F</td> </tr> <tr> <td>Thin With</td> <td colspan="2">Do Not Thin</td> </tr> <tr> <td>Clean Up Thinner</td> <td colspan="2">Warm Water</td> </tr> <tr> <td>Weight Per Gallon</td> <td colspan="2">8.6 – 8.8 Lbs.</td> </tr> <tr> <td>Storage Temperature</td> <td>– Min.</td> <td>50° F</td> </tr> <tr> <td></td> <td>– Max.</td> <td>90° F</td> </tr> <tr> <td colspan="3" style="text-align: center;">Volatile Organic Compounds (VOC)</td> </tr> <tr> <td></td> <td>195 Grams/Liter</td> <td>1.6 Lbs./Gallon</td> </tr> </tbody> </table>	Technical Data		Clear	Vehicle Type	Waterborne Urethane		Pigment Type	N/A		Weight Solids	29% ±1.0%		Coverage per Gallon at Recommended Film Thickness	500 – 550 Sq. Ft.		Recommended Film Thickness	– Wet	3.0 mils		– Dry	1.4 mils	Depending on surface texture and porosity.			Dry Time @ 77°F	– Tack Free	30 Minutes	– To Sand	2 Hours @ ambient temp	– To Recoat	3 Hours	– To Full Cure	7 Days	High humidity and cool temperatures will result in longer dry, recoat and service times.			Dries By	Evaporation/Coalescence		Viscosity	15 – 25 Seconds (#2 Zahn)		Flash Point	>200°F		Gloss / Sheen	Satin/Semi-Gloss/Gloss		Surface Temperature at Application	– Min.	65°F		– Max.	95°F	Thin With	Do Not Thin		Clean Up Thinner	Warm Water		Weight Per Gallon	8.6 – 8.8 Lbs.		Storage Temperature	– Min.	50° F		– Max.	90° F	Volatile Organic Compounds (VOC)				195 Grams/Liter	1.6 Lbs./Gallon
Technical Data		Clear																																																																										
Vehicle Type	Waterborne Urethane																																																																											
Pigment Type	N/A																																																																											
Weight Solids	29% ±1.0%																																																																											
Coverage per Gallon at Recommended Film Thickness	500 – 550 Sq. Ft.																																																																											
Recommended Film Thickness	– Wet	3.0 mils																																																																										
	– Dry	1.4 mils																																																																										
Depending on surface texture and porosity.																																																																												
Dry Time @ 77°F	– Tack Free	30 Minutes																																																																										
	– To Sand	2 Hours @ ambient temp																																																																										
	– To Recoat	3 Hours																																																																										
	– To Full Cure	7 Days																																																																										
High humidity and cool temperatures will result in longer dry, recoat and service times.																																																																												
Dries By	Evaporation/Coalescence																																																																											
Viscosity	15 – 25 Seconds (#2 Zahn)																																																																											
Flash Point	>200°F																																																																											
Gloss / Sheen	Satin/Semi-Gloss/Gloss																																																																											
Surface Temperature at Application	– Min.	65°F																																																																										
	– Max.	95°F																																																																										
Thin With	Do Not Thin																																																																											
Clean Up Thinner	Warm Water																																																																											
Weight Per Gallon	8.6 – 8.8 Lbs.																																																																											
Storage Temperature	– Min.	50° F																																																																										
	– Max.	90° F																																																																										
Volatile Organic Compounds (VOC)																																																																												
	195 Grams/Liter	1.6 Lbs./Gallon																																																																										

Surface Preparation

Echo One Component Waterborne Urethanes are self-sealing finishes. Apply no more than 2 coats per day. For high traffic floors apply 4 coats to achieve optimal protection and durability.

SPECIFICATIONS (New Floors): Install and sand all new floors to recommended NWFMA/MFMA guidelines. Final sand with new 120 grit screen. Do not use steel wool. Remove all dust, vacuum, and tack with clean, dry towels. Wood must be free of all surface contaminants. Allow oil-base stains to thoroughly dry a minimum 48 – 72 hours before proceeding.

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. Carefully clean up 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

Applicators: T-bar applicator, Synthetic lambswool applicator, Nylon brush

Mix Echo thoroughly and apply first coat of finish by nylon brush and/or pad applicator. Pour a 6" wide stream of finish along the starting wall. Cut-in using 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. Maintain good ventilation and air movement during drying phase. To achieve proper adhesion, abrade all coats with new conditioning pad and 180/240 grit strip sandpaper. After sanding, vacuum and tack with clean water-dampened towels and let dry. Ideal recoat time is within 3 hours. Two coats per day. Longer time delays between coats will require more aggressive sanding for proper adhesion. Do not tape or cover finish until fully cured. No rugs for 15 days. Do not thin.

SPECIFICATIONS (Screen & Recoat): Do not use over waxes or polishes. Do not use steel wool. Abrade floor with a new 100 or 120 grit screen. Remove all dust: vacuum and tack with water-dampened towel. Apply 2 coats of Echo 1 Component Waterborne Finish using the New Floor Specifications.

Cleanup

Clean equipment with warm water immediately after use.

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

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 "CleanUp".

KEEP OUT OF REACH OF CHILDREN

PROTECT FROM FREEZING

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

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