



PRODUCT DATA SHEET

3220 SERIES

ENDURA TREAD® 2K WATERBORNE ACRYLIC URETHANE CLEAR FLOOR COATING



PRODUCT DESCRIPTION

EnduraTread® 3220 2K Waterborne Acrylic Urethane Clear is a high-performance water-based, two-component acrylic urethane coating specially formulated for sealing and protecting concrete floors and decorative concrete surfaces, as well as finishing decorative flake and resinous flooring systems. It provides excellent abrasion, scratch, chemical and stain resistance, outstanding UV stability, and a durable clear satin or gloss finish that resists yellowing and helps maintain long-term appearance. Easy to apply and low odor, it offers the same performance characteristics as solvent-based urethane floor coatings and is excellent for use in commercial, institutional, industrial, and residential environments where a tough, durable protective finish is required.

PRODUCT FEATURES	PRODUCT USES		PERFORMANCE QUALITIES		VOC COMPLIANCE	
• Waterborne Acrylic Urethane • Clear Satin & Gloss • Non-Yellowing • Exceptional Durability • Abrasion & Scratch Resistant • Chemical & Stain Resistant • Low Odor / Low VOC • Easy To Apply	<i>Suitable for the following properly prepared surfaces;</i>		Product Quality:	Premium	AIM	Yes
	INTERIOR		Product Use:	Interior / Exterior	LADCO	Yes
	Garage Floors	Office Buildings	Application:	Brush, Roller, & Airless Spray	OTC I & II	Yes
	Basements	Restaurants	Product System:	Water-Based	CARB	Yes
	Warehouses	Schools		SCAQMD	Yes	
	Processing Plants	Hospitals		CANADA	Yes	
	Manufacturing Plants	Government Buildings	Finish:	Satin and Gloss		
Industrial Flooring	Commercial Flooring					
For Interior & Exterior Use.						

SURFACE PREPARATION

General: Sweep the floor to remove all excess dirt and debris. Any grease or oil spots should be cleaned first with a degreaser type cleaner. Clean the floor a section at a time (10' x 10') with a strong detergent using a stiff broom to scrub the surface. Thoroughly rinse with a hose and allow floor to dry completely. If necessary, use a squeegee to remove any standing water.

Bare concrete: All new concrete and masonry substrates should be at least 30 days old before painting!

Test the floor for the presence of a sealer by sprinkling water onto several areas of the floor. If the water beads and does not soak in, a sealer is present and must be removed by mechanical grinding. Acid etching may be effective on some concrete floors, but mechanical grinding is preferred for effectively removing laitance and opening the pore structure of the concrete for good penetration and adhesion. If acid etching, be sure to wear personal protection gear (goggles, gloves, boots, etc.) and follow the manufacturer's instructions and safety precautions when working with Muriatic Acid. Do not allow acid to dry on the surface. Rinse acid etched concrete thoroughly with an abundance of water. Concrete etched with acid should create a surface texture similar to 180 grit sandpaper. If it does not, mechanical grinding is recommended. Allow the floor to dry for at least 24 hours. Before painting, test the floor for excessive moisture by applying a 2' x 2' sheet of plastic to the floor with duct tape and allow it to set for 24 hours. If water droplets appear on the underside of the plastic, or the concrete appears wet (darker in color), the moisture content of the floor is too high and should not be painted.

Previously Painted Floors: Remove any loose, cracked or peeling paint by hand scraping, sanding, wire brushing, or by power tool cleaning. Any glossy surface areas should be sanded to dull the finish. Cracks, holes, and damaged concrete must be filled with a suitable concrete based patching material, carefully following the manufacturer's instructions. Test the adhesion of the remaining paint by cutting an X in the paint with a single edge razor blade. Apply a 5" piece of duct tape firmly over the X. Remove the tape with one quick pull. If more than 25% of the paint comes off with the tape, the old coating must be completely removed. Do not acid etch previously painted floors. Test any bare concrete floor areas for moisture as previously outlined before painting.

Mildew - Surface areas affected by mildew should be treated with a commercial mildew removal and/or wash product carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water, and allow a minimum of 24 hours to dry thoroughly.

- 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 wet mop. Before you start, find out how you can protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-Lead, or log onto www.epa.gov/lead.

TECHNICAL DATA

- COLORS:** Clear Satin, Clear Gloss
- TINTING:** N/A
- VEHICLE TYPE:** Acrylic Urethane
- VISCOSITY:** 28 – 32 Sec. (#3 Zahn)
- GLOSS @ 60°:**
Satin, 32 units ± 3, Gloss, 90 units ± 3
- FLASH POINT:** 200° F
- VOC:** Not to Exceed 10 g/l – 0.08 lb./gal
(Meets All U.S. and Canadian VOC Standards)
- SOLIDS:** By Volume: 46% ± 2%
By Weight: 49% ± 2%
- COVERAGE:** 250 – 400 Sq. Ft. / Gal.
(Coverage will vary depending on surface porosity, texture and condition.)
- MIL FILM:** Estimated @ 350 Sq. Ft. / Gal.
Wet: 4.6 mils **Dry:** 2.1 mils
- DRY TIME:** (@ 70° F & 50% Relative Humidity)
To Touch: 4 hours
Recoat: After overnight dry
Light Foot Traffic: 24 hours
Full Cure: 3 - 4 Days
(Dry times listed may vary according to relative humidity, surface & ambient temperatures, film build, color and air movement.)
- CLEAN UP:** Warm Soapy Water
- THINNING:** Clean Water, up to 10%

RECOMMENDED PRIMERS/SEALERS

This water-based urethane can be used as self-sealing on properly prepared bare or painted surfaces in good condition. When coating bare concrete, thin the first coat 10% with clean water??

APPLICATION EQUIPMENT

- **Brush Application:** Apply using a quality nylon, polyester, or combination nylon/polyester bristle brush.
- **Roller Application:** Apply using a shead-resistant smooth - medium nap synthetic or lamb's wool roller cover, depending on the texture and surface porosity.
- **Spray Application:**
 - **Pump:** Gas or Electric Airless Sprayer
 - **Pressure:** Minimum 1500 – 2000 PSI
 - **Tip:** 0.011 – 0.013 Reversible
 - **Hose:** ¼ inch (6.3 mm) - ¾ inch (10 mm)

PACKAGING & WEIGHT PER GALLON

- **Packaging:** 5-Quart Kit, includes a gallon of Part A and a quart of Part B
- **Weight per Gallon:** 8.9 lbs. ±0.5

PRODUCT LIMITATIONS

- Not a moisture mitigation coating.
- Not for immersion services.
- Not for use in highly corrosive or chemical environments.
- Not for use in areas subject to intense heat.
- Not for use on below grade substrates.

CLEAN UP & THINNING INSTRUCTIONS

Clean Up: Clean up any minor spills and spatters immediately with warm soapy water, as well as all painting tools and airless equipment. More serious spills should be contained and removed with inert absorbent material. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state and federal regulations.

Thinning: Mix thoroughly and apply as it comes from the container. Thinning is not necessary. However, if thinning is required, you may add clean water up to ½ pint per gallon.

NOTE: While this coating has been formulated to resist tire tracking and tire printing, certain rubber compounds and plasticizers may potentially stain the coating. We cannot guarantee against tire marking or staining.

WARRANTY & LIMITATIONS

The technical information contained herein is accurate to the best of our knowledge. All warranties are excluded, whether expressed or implied, by operation of law or otherwise, including all implied warranties of merchantability or fitness for a particular purpose. Seller shall not be liable, directly or indirectly, under any circumstances for consequential, incidental, special or any other type of damages arising or resulting for any reason under the sale, handling, or use of goods sold. Seller's liability hereunder, and buyer's exclusive remedy hereunder, for negligence or any other reason, is expressly limited to reimbursement of the purchase price of the materials sold after proof of purchase is provided to the seller. Notice of any alleged failure or defect in the material must be given to the seller in writing by certified U.S. mail within 15 days of noticing the problem. Failure to give the required notice within the time provided constitutes a waiver of any claim. The Manufacturer is not responsible for any misrepresentation made by the Dealer.

REV 06-26

PRODUCT APPLICATION – General

EnduraTread 2K Waterborne Urethane Clear may be easily applied with a quality brush, roller cover, or airless spray equipment as follows;

- After properly mixing Part A & B components, (see mixing instructions below), stir thoroughly in a spiral up and down motion before and during application to keep product completely mixed.
- For best results, it is recommended to apply two (2) finish coats to bare concrete floors.
- When applying by brush, apply a smooth and generous coat on smaller surface areas, such as cutting-in larger surfaces and painting trim.
- When applying by roller cover, it is recommended to apply with a ¼" to ½" nap roller, applying an even and generous coat in a "W" or crisscross motion, avoiding any excessive respreading or reworking.
- When applying by airless spray equipment, use a unit with a minimum of 2000 psi of pressure, with a 0.011 – 0.013 fluid spray tip.
- During spray application, it is recommended to back-roll the surface area to ensure even coating application.
- Maintain a wet edge during application by brushing, rolling or spraying into previously applied coating area.
- Apply when surface and ambient temperatures are above 55° F and below 95° F. **KEEP FROM FREEZING!**

MIXING INSTRUCTIONS

EnduraTread 2K Waterborne Urethane Clear is formulated as a 4:1 mixing ratio, (1 gallon of Part A and a quart of Part B). Thoroughly stir part A and part B before combining. Pour the total contents of Part A and Part B into a separate mixing container. Be certain to incorporate all of Part A and Part B as this effects the curing and durability. DO NOT mix by hand with a stir stick. Mix using a drill and Jiffy Mixer at low speed for 2 to 3 minutes. Scrape the sides of the container occasionally while mixing to ensure uniformity. Avoid mixing too fast. Do not whip air into the product. No induction (waiting) time is required. Mixed coating may be used immediately.

Pot Life: Mixed material has a 1.5 to 2 hour pot life after combining and should be applied during this time period. Warmer temperatures (>80° F) will shorten the pot life.

PRECAUTIONARY & SAFETY INFORMATION

CAUTIONS: Avoid prolonged contact with skin, and breathing of dust, vapors and/or spray mists. Causes eye irritation. **USE WITH ADEQUATE VENTILATION!** Ensure fresh air entry during application and drying. If you experience eye water, headache or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriately fitted respirator, (NIOSH approved), during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Use chemical safety glasses, goggles or a face shield for proper eye protection. Wash thoroughly after handling and before eating or smoking. Close container after each use. **DO NOT TAKE INTERNALLY!**

FIRST AID: In case of skin contact, wash thoroughly with plenty of warm soapy water. For eye contact, flush with plenty of water for 15 minutes and get medical attention immediately. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. If swallowed, do not induce vomiting, get medical attention immediately.

DISPOSAL: Dispose of unused contents in accordance with local, regional, national and/or international regulations. See SDS for additional disposal details.

KEEP OUT OF REACH OF CHILDREN!