

DESCRIPTION

PolySpec® IMO LUX is a trowel applied, terrazzo type, decorative decking system, which consists of a 100% solids, two component epoxy resin binder and properly graded marble aggregate. This system is finished with an epoxy resin coat and a scratch resistant topcoat.

Through the use of proprietary technology, PolySpec IMO LUX meets IMO/SOLAS requirements for surface flammability, smoke and toxicity. The floor is installed at a nominal 1/4", with an average weight of 2.2 lbs. per square foot at 1/4"

PolySpec IMO LUX has been approved as meeting parts 2 and 6 of Annex I of the IMO Fire Testing Procedures Code and is classified as a primary deck covering.

TYPICAL APPLICATION

• Primer	IMO LUX Bond Coat @ 12-15mils
• Trowel Coat	IMO LUX Kit @ 1/4" thickness
• 1st Seal Coat	IMO LUX Grout Coat @ 10-12 mils
• Top Coat	TuffRez®236 @ 4-5 mils optional

PERFORMANCE DATA

Compressive Strength (ASTM C-579)	3600 psi
Adhesive Strength (MIL-D-24613).....	365 psi
Tensile Strength (ASTM C-307).....	900 psi
Impact Resistance (MIL D-24613).....	.0006 No Chipping, cracking or delamination
Indentation0002" (0.69%)
Fire Resistance (Part 6 of Annex 1 IMO FTP Code).....	Not Readily Ignitable
Smoke and Toxicity (Part 2 of Annex 1 IMO FTP Code)	Pass
Resistance to Elevated Temperatures (MIL-D-24613)	No flow, no slip, no softening

STORAGE & INSTALLATION

Storage Environment.....	Dry area, 65–80°F
Application Temperature, ambient	50–85°F
Application Temperature, substrate	Minimum 5°F above dew point
Service Temperature	Maximum 150°F
Shelf Life	12 months
Pot Life, @ 77°F.....	30 minutes
Foot Traffic, @ 77°F.....	12-16 hours
Full Service, @ 77°F	36 hours

PolySpec® IMO LUX

TECHNICAL DATA SHEET

Epoxy Terrazzo Floor

BENEFITS

- *Decorative finish*
- *Fast installation turnaround*
- *Fire retardant*
Low toxicity during burn
- *Completely seamless and water resistant*
- *Extremely tough, durable system*

RECOMMENDED USES

- *Galleys*
- *Pantries*
- *Sculleries*
- *Toilet and shower areas*
- *Corridors*
- *Offices*

STANDARD COLORS

Please refer to the PolySpec IMO LUX Color Chart

GENERIC DESCRIPTION

Epoxy "Terrazzo" Decking System

PACKAGING / COVERAGE

Bond Coat @ 12-15 mils:

IMO LUX Bond Coat 1/2-Gallon Unit / 50 sq. ft.

Trowel Coat @ 1/4" thickness:

IMO LUX Kit 0.4 ft³ Unit / 20 sq. ft.

1st Seal Coat @ 10-12 mils:

IMO LUX Grout Coat 1-Gallon Unit / 130 sq. ft.

Top Coat @ 4-5 mils:

TuffRez 236 3/4-Gallon Unit / 260 sq. ft.

Material cures more slowly at cooler temperatures, and working time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to 65°F to 80°F prior to mixing and application to improve workability and avoid shortened pot life. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

CONSIDERATIONS & LIMITATIONS

1. Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.
2. Do not thin with solvents unless advised to do so by PolySpec.
3. Confirm product performance in specific chemical environment prior to use.
4. Prepare substrate according to "Surface Preparation" portion of this document.
5. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
6. For industrial/commercial use. Installation by trained personnel only.

SURFACE PREPARATION

Steel: For steel surfaces, a "Near White Metal" ultra high-pressure wash or abrasive blast with anchor profile of 2–4 mils in accordance with Steel Structures Painting Council Specification SP-10 or NACE No. 2 is required.

Refer to PolySpec Surface Preparation Guidelines for more details.

INSTALLATION STEPS

1. **Bond Coat:** Mix IMO LUX Bond Coat thoroughly for 1–2 minutes with a Jiffy type mixer, and scrape the sides and bottom of the can to insure complete mixing. Apply evenly to the deck with a brush, squeegee or short nap roller. Avoid puddles. Body coat is applied while Bond Coat is wet or tacky.
2. **Trowel Coat:** Apply PolySpec® IMO LUX directly over wet primer coat at a nominal thickness of 1/4".

- A) Pre-mix aggregates before mixing with catalyzed resin.
- B) Mix IMO LUX Liquids together before adding to the mixing vessel.
- C) Pour the aggregate mix into the liquid and blend thoroughly, normally 3-5 minutes. **Do not under mix.**
- D) Immediately spread the mix into the wet area of the primed floor. Screed the material to its proper thickness and then trowel the mix tightly to the deck using standard cement finishing tools. Use low level lighting to help avoid trowel marks. Allow material to cure 10-12 hours before sealing. Knock off any burrs with the edge of a steel trowel. Sweep the deck clean.

Option: Lightly sand the surface of the Trowel Coat using 80 grit paper to help smooth the surface and remove burs and other surface irregularities. Sanding will also highlight the colors of the aggregate blend. Vacuum the surface thoroughly before proceeding.

3. **Grout Coat:** Mix IMO LUX Grout Coat together making sure to stir thoroughly and to scrape the sides and bottom of the container to insure proper mixing. Pour from the mixing container at once to prolong working time. Do not turn the can upside down and allow to drain on the substrate. Apply by brush to base, corners, around pipes and other hard to reach areas. For walking surfaces and other accessible flat areas, apply with a red or white rubber squeegee. Back roll the surface to a uniform appearance. Take care not to leave ridges, lap marks or drops on the surface. **DO NOT OVER SEAL.** A properly sealed surface has all voids filled with sealer uniformly. Allow sealer to cure long enough to walk on, usually 8 to 12 hours depending on the temperature. All epoxy coatings cure faster in warm weather and slower in cold weather.
4. **Top Coat:** The Top Coat is a three-component material. Using a Jiffy mixer blade and a 1/4-inch variable speed drill, mix part A with part B. Mix for two minutes at high speed. Then add Part C and mix for one minute. Spread Topcoat evenly onto the deck at a rate of 300 square feet per gallon using a short nap roller. It is important to remove any loose hair from the roller before the installation. Make sure to roll the material evenly and **DO NOT** go back over an area that has been down for more than a few minutes. (This may reduce the gloss level in that area) Do not install the Top Coat at more than 5 mils. The material will become cloudy and physical properties as well as cure time will be effected. Material will go down milky white but will become clear as it cures.
Option: Add 1.5 pounds of 220 grit white aluminum oxide to the 3/4 gallon kit to give a light non-skid surface. This will also lower the reflection of the top coat.

Note: Allow 12-16 hours cure time at 75°F (24°C) before opening to light foot traffic. Open to full service in 36 hours. Ultimate cure is 72 hours. Cure times are based on 75°F (24°C) and 50% relative humidity. Additional deck protection can be provided through the final cure by covering the deck surface with fire-rated kraft paper. This will prevent premature scratching of the deck surface. CAUTION: Contact with water will cause whitish, cloudy spots if the epoxy is not fully cured.

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