

DESCRIPTION

PolySpec 400/401 is a 100% solids, pigmented, highly versatile polymer floor coating. This durable material withstands wear from foot traffic, rubber wheels and chemical attack. It cures to form a smooth, glossy surface finish.

TYPICAL APPLICATION

• Primer	PolySpec® TITE M-50
• Body Coat	PolySpec® 400/401 @ 10-12 mils
• Topcoat (Optional)	TuffRez® 236 @ 4-5 mils

PERFORMANCE DATA

Tensile Strength (ASTM C-307)	2,250 psi
Flexural Strength (ASTM C-580)	4,000 psi
Hardness, Shore D (ASTM D-2240)	80-85
Bond Strength (ASTM D-4541)	950 psi
Abrasion Resistance (ASTM D-4060)	80 mg
VOC	0 lb/gal; 0 gm/L
Volume Solids	100 %

STORAGE & INSTALLATION

Storage Environment	Dry area, 65–80°F
Application Temperature, ambient	50–95°F
Application Temperature, substrate	Minimum 5°F above dew point
Shelf Life	12 months
Pot Life, @ 77°F	35 minutes
Foot Traffic, @ 77°F	12-16 hours
Full Service, @ 77°F	24 hours

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. Do not use partial units. Prolonged exposure of product in containers to air may cause loss of clarity.
2. Do not apply to wet or damp substrates.
3. Do not apply where ambient operating temperatures exceed 150°F or where application temperatures are below 40°F or above 95°F.
4. 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.
5. Do not thin with solvents unless advised to do so by PolySpec.
6. Confirm product performance in specific chemical environment prior to use.
7. Prepare substrate according to "Surface Preparation" portion of this document.
8. Refer to PolySpec® 400/401 Application Instruction Document for official Application Procedures.
9. 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.
10. For industrial/commercial use. Installation by trained personnel only.

PolySpec® 400/401

TECHNICAL DATA SHEET

Pigmented Epoxy Floor Coating

BENEFITS

- Seamless, monolithic application
- Wide variety of colors
- Easy to install and maintain

RECOMMENDED USES

- Marine deck coating
- Manufacturing facilities
- Laboratories
- Aisles
- Galleys and living quarters of ships and offshore drilling platforms

GENERIC DESCRIPTION

Pigmented Epoxy

STANDARD COLORS

Light Gray, Light Blue, Medium Blue, Navy Blue, Sand, Terrace Green, Tan

Additional colors available upon request. Non-stocking colors may be subject to additional lead time, minimum order requirements, and a slight premium.

PACKAGING / COVERAGE

1-Gallon Unit / 130-160 sq. ft.

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. **Primer:** When installing over bare steel, a primer (such as PolySpec® TITE M-50) will be required. See TITE M-50 data sheet for technical data and application details.
2. Premix Component A 400 Resin.
3. Pour Component B 401 Curing Agent into Component A 400 Resin. . Mix thoroughly, using an electric drill with a “Jiffy” mixer blade. Blend material consistently, making sure not to whip air into the mix, and stop often to scrape the sides of the container. Mix well for 1-2 minutes.
4. Pour the mixed material on the floor in a “puddle” or “ribbon” and spread with a trowel or squeegee. Pass a short nap, mohair roller over the wet surface to produce a uniform surface appearance. Pass roller across and back. Do not overwork. This material should be “placed” on the floor and should not be applied like paint.

Note: Excessive rolling may result in color variation.

5. **Second Coat:** The second coat can usually be applied directly over the first coat. Application of second coat should be installed no more than 48 to 72 hours after the first coat. We strongly recommend wiping floor with 90% or greater anhydrous isopropyl alcohol prior to second application. Apply second coat of Resin/Curing agent mixture according to Step 4.

Note: If more than 72 hours have past before application of second coat, surface must be lightly abraded to allow for intercoat adhesion. If sanding, make sure surface is clean of sanding dust by wiping surface with 90% or greater anhydrous isopropyl alcohol.

6. For best results, clean tools and equipment with PolySpec® All Purpose Cleaner, a nonflammable and non-evaporating cleaner. Always wear gloves when using this product.

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