

DESCRIPTION

PolySpec FLOR is a decorative, 100% solid, polymeric floor, which consists of a colored base coat and a series of clear epoxy resin applications series of epoxy resin applications into which colored vinyl chips are imbedded. PolySpec FLOR is installed at a minimum thickness of 1/16". PolySpec FLOR is on the Federal Government's Qualified Products List under MIL-D-24613, Type I, Class 2.

TYPICAL APPLICATION

• Primer (optional)	PolySpec TITE M-50
• Color Coat	400/401 @ 12 mils
• Receiving Coat	700/710 @ 16 mils
• Broadcast	Vinyl Chip (flakes)
• Sealer Coat	700/710 @ 12 mils
• Top Coat	TuffRez® 236 @ 4 – 5 mils

PERFORMANCE DATA

Fire Resistance (MIL D-24613) Fire retardant
Adhesive Strength (MIL D-24613) 365 psi
Indention 0.002" (.69%)
Impact Resistance (MIL D-24613) 0.006" – No chipping, cracking or delamination

Electrical Resistivity (NFPA Bulletin #56) Di-electric
Non-Slip Properties Will vary, depending on surface finish.

Typical surface texture should yield these minimum resistance factors:

<u>Static Friction</u>	Dry	Wet	Oily
Leather .56	0.83	---	
Rubber	0.86	0.78	0.56
<u>Sliding Friction</u>			
Leather	0.56	0.87	---
Rubber	0.86	0.72	0.61

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 24-36 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 thin with solvents unless advised to do so by PolySpec.
2. Confirm product performance in specific chemical environment prior to use.
3. Prepare substrate according to "Surface Preparation" portion of this document.
4. 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.
5. For industrial/commercial use. Installation by trained personnel only.

PolySpec® FLOR

TECHNICAL DATA SHEET

Vinyl Chip Seamless Floor

BENEFITS

- Very light weight
- Zero VOC's, almost no odor
- Good wear qualities and chemical resistance
- Fire retardant properties
- Decorative, seamless appearance
- No waxing or stripping required

RECOMMENDED USES

- Laboratories
- Nurseries
- Snack areas
- Janitor closets
- Living areas on a ship

STANDARD COLORS

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

GENERIC DESCRIPTION

Epoxy

PACKAGING / COVERAGE

Color Coat @ 12 mils

400/401 1 – Gallon Unit / 135 sq. ft.

Receiving Coat @ 16 mils

700/710 1 – Gallon Unit/ 100 sq. ft.

Vinyl Chips (flakes)

10 - pound bag
55 - pound bag

Sealer Coat @ 12 mils

700/710 1 – Gallon Unit / 135 sq. ft.

Top Coat @ 4-5 mils

TuffRez® 236 1 – Gallon Unit / 350 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. **Priming (optional):** When installing over bare steel, a primer (such as PolySpec TITE M-50) will be required.

PolySpec TITE M-50: Using a Jiffy mixer blade and a 1/4" variable speed drill, thoroughly mix four Components A and one Component B together for 1–2 minutes. Scrape the sides and bottom of the can to be sure that all material is thoroughly mixed together. Apply to the deck at 4–5 mils using a short nap roller. Coverage will be 300–350 square feet per gallon. Allow to cure for 10–12 hours at 75°F (25°C). PolySpec FLOR 400/401 will adhere to primed steel.

2. **Underlayment (optional):** PolySpec® FLOR is applied over PolySpec® LITE LATEX underlayment or PolySpec® CLAD epoxy underlayment. Decks can be either 100% underlayment or partially leveled. Sand any imperfections in the underlayment as they may show through the basecoat.
3. **Color Coat:** If underlayment has been used, seal the underlayment with 700/710 before proceeding to 400/401 Color Coat.

Premix Component A (400) separately prior to combining, using a low-speed drill and Jiffy type mixer for one minute and until uniform. Pour Component B (401) Curing Agent into Component A Resin and mix thoroughly with a low-speed drill and Jiffy type mixer for 1-2 minutes and until uniform. Normal pot life is 35 minutes at 77°F (25°C). Mix ratio is 2-parts resin to 1-part hardener by volume.

Apply by spring steel trowel, steel trowel, roller, brush, or squeegee to

properly prepared substrate at 12 mils. Apply evenly with no puddles. Allow to cure for 8-12 hours at 77°F (25°C). Lower temperatures may require longer curing times.

4. **Clear Receiving Coat & Flake Broadcast:** Pour Component B (710) Curing Agent into Component A (700) Resin and mix using a low speed drill and a Jiffy type mixer. Mix thoroughly for 1-2 minutes and until uniform. Normal pot life is 30 minutes at 75°F (24°C). Mix Ratio is 3-Part resin to 1-part hardener by volume.

Apply by using a spring steel trowel, steel trowel, squeegee or by rolling at a spread rate of 100 square feet per gallon or an average of 16 mils, and smooth with a short nap mohair type roller.

Broadcast pre-blended flakes by hand uniformly to a consistent coverage. Backroll with a short nap mohair roller to flatten the flakes and ensure adhesion. Make sure to backroll with roller pre-primed with catalyzed 700/710 clear epoxy, to facilitate the embedding of the chip broadcast.

5. **Seal Coat:** Before applying the final seal coat, it may be necessary to lightly sand the flake coat to remove any high or rough spots. Vacuum or wipe with a dry cloth to remove dust or other contaminants. It may be necessary to solvent wipe with isopropyl alcohol (99% anhydrous) to ensure a clean surface prior to seal coat.

Mix and apply 700/710 seal coat at 12 mils (see first two paragraphs of step four for detailed instructions). Finished deck covering system should cure 72 hours at 75°F (24°C) before opening to foot traffic. Completed system must be protected from exposure and/or immersion to water and chemicals until thoroughly cured, a minimum of 7 days.

6. **Top Coat:** TuffRez 236 Topcoat is a three-component material. Using a Jiffy mixer blade and a 1/4 inch variable speed drill, mix Component A with Component B. Mix for one minute at low speed. Add Component C and mix well for another minute. Spread Topcoat evenly onto the deck at a rate of 350 square feet per unit 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, which has been down for more than a couple of minutes. (This may reduce the gloss level in that area) Do not install the Topcoat at more than 4-5 mils, the material will become cloudy and physical properties as well as cure time will be effected.

Note: Allow 16-24 hours cure time before opening to light foot traffic. Open to full service in 48 hours. Ultimate cure is 72 hours. Cure times are based on 75°F (24 °C) and 50% relative humidity.

7. Use PolySpec All Purpose Cleaner for cleaning tools and equipment. Always wear gloves when using this product.

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