

DESCRIPTION

PolySpec® TWEDE 71 is a trowel applied, decorative resin flooring system which consists of a two-component, 100% solids, epoxy resin binder with angular colored quartz aggregates, topped with clear resin finish coats. The floor is installed at 1/8" to 1/4" thickness and can be installed with an intergrated cove base to the height specified.

PolySpec® TWEDE 71 is on the Federal Government's Qualified Products List under MIL-D-24613, Type I, Class I.

TYPICAL APPLICATION

Table with 2 columns: Component and Thickness. Rows include Primer (700/710 @ 6 mils), Trowel Coat (700/710, Quartz, EZ Trowel @ 1/4" thickness), 1st Seal Coat (700/710 @ 20 mils), 2nd Seal Coat (700/710 @ 12 mils), and Polyurethane Topcoat (optional) (TuffRez® 236 @ 4-5 mils).

PERFORMANCE DATA

Table listing performance metrics such as Compressive Strength (12,900 psi), Tensile Strength (System: 1,160 psi, Pure Polymer: 9,700 psi), Flexural Strength (System: 4,600 psi, Pure Polymer: 12,900 psi), Water Absorption (Nil), Impact Resistance (0.010" No chipping), Indentation (Initial: 0.00016, 24 hr Residual: 0.0008), Adhesive Strength (434 psi), Oil Absorption (Nil), Fire Resistance (Fire retardant), Non-Slip Properties (Passes), Electrical Resistivity (Non-conductive), and Abrasion Resistance (Passes).

STORAGE & INSTALLATION

Table listing storage and installation conditions: Storage Environment (Dry area, 65-80°F), Application Temperature (ambient: 50-85°F, substrate: Minimum 5°F above dew point), Service Temperature (Maximum 150°F), Shelf Life (12 months), Pot Life (30 minutes), Foot Traffic (12-16 hours), and Full Service (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. 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. Refer to PolySpec® TWEDE 71 Application Instructions Document for official Application Procedures.
6. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Refer to MSDS for detailed safety precautions.
7. For industrial/commercial use. Installation by trained personnel only.

PolySpec® TWEDE 71

TECHNICAL DATA SHEET

Decorative Quartz Troweled Seamless Floor

BENEFITS

- Requires no waxing or stripping
• Available in a wide variety of color combinations
• Good chemical and impact resistance
• Available in high gloss or low sheen finishes
• Extremely tough and durable

RECOMMENDED USES

- Corridors
• Auditoriums
• Galleys
• Mess decks
• High traffic areas

GENERIC DESCRIPTION

Epoxy fine grade terrazzo

STANDARD COLORS

Please refer to the Polyspec Decorative Quartz color chart for TWEDE blends available

PACKAGING / COVERAGE

Table listing packaging and coverage for Primer @ 6 mils, Trowel Coat, 1st Seal Coat @ 20 mils, 2nd Seal Coat @ 12 mils, and Optional Top Coat @ 4-5 mils.



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):** Mix 700/710 thoroughly for 1–2 minutes with a Jiffy type mixer, and scrape the sides and bottom of the can to insure complete mixing. Apply to the deck with a brush, squeegee or short nap roller. Avoid puddles. Body coat is applied while primer coat is wet.
- 2. Trowel Coat:** Apply TWEDE 71 directly over wet primer coat at a minimum thickness of 3/16". Pre-mix aggregates before mixing with catalyzed resin. Pour mixed gallon unit of 700/710 into the aggregate mix (50 lbs. decorative quartz and 7 lbs.(3.18 kg) EZ Trowel Powder) and blend thoroughly. Immediately spread the mix into the wet area of the primed floor. Scream 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.
- 3. Sealing:** Two or three coats are required to achieve desired finish. Workers should wrap shoes in polyethylene, masking tape or other suitable covering to protect the surface. Mix resin and hardener 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.
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. 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 10 to 12 hours depending on the temperature. All epoxy coatings cure faster in warm weather and slower in cold weather.
Apply second coat using brush and squeegee as in application of the first coat. If all voids are not filled in a third coat may be necessary. After applying the final coat back-roll the surface with a short nap roller (1/8") to eliminate any squeegee marks and to give an even texture.
Allow at least 12 hours cure time at 75°F (24°C) before opening the area to limited traffic. Allow to cure an additional 12 hours before opening the areas to full traffic. Avoid contact with water to the surface for 36 hours depending on the temperature. CAUTION: Contact with water will cause whitish, cloudy spots if the

epoxy is not fully cured.

4. Top Coat (Optional):

- a)** Apply PolySpec® 1757 Flat Finish Epoxy for a durable matte finish.
- b)** Apply FLEX FR urethane Top Coat (TuffRez 236) for a durable satin finish.

Please refer to separate Installation Instructions and Technical Data Sheets for further information.

Note: All liquids should be mixed with a low speed (300 rpm) drill and jiffy blade for 1-1/2 minutes per batch.

- 5. Cleaning Equipment:** Wash tools and equipment in warm, soapy water and wipe clean immediately after use. Tools that have materials hardened on them will require soaking in stripper to remove. Wash hands, arms and face with warm soapy water. For best results, use PolySpec® All Purpose Cleaner, a non-flammable, low evaporating cleaner. Always wear gloves when using this product.

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