POLYZEN

WHERE SOVEREIGN SURFACES RULE

APPLICATION DATA SHEET

INTERIM

Anti-Skid / Non-Slip Flooring

SYSTEM FAMILY
Resin flooring finish / application methodology

TYPE
Broadcast anti-slip texture on resin floors

NOMINAL BUILD
finish option on base system

1. SCOPE & SYSTEM DESCRIPTION

This Application Data Sheet describes POLYZEN's method for creating an **anti-skid / non-slip finish** on resin floors — graded aggregate broadcast into an epoxy or PU system and locked with seal coats to a controlled slip level.

It is a **brand-flexible application guide** applicable with a POLYZEN system product or a client-approved equivalent. The anti-skid finish is engineered on top of the specified base flooring system.

2. SUBSTRATE REQUIREMENTS

- New concrete cured a minimum of 28 days; sound and structurally stable.
- Compressive strength typically ≥25 N/mm² and surface tensile (pull-off) ≥1.5 N/mm² (indicative; per project).
- Substrate dry and free of oil, grease, curing compounds and previous coatings.

3. SURFACE PREPARATION

- Mechanically prepare by diamond grinding or captive shot-blasting to a clean, open profile (typical CSP 2–3). Acid etching is not accepted.
- Remove laitance, contamination and unsound material; repair cracks, spalls and joints with compatible repair mortars.
- Assess substrate moisture per **ASTM F2170** (in-situ RH); treat where readings exceed the selected system's limit.
- Vacuum the prepared surface immediately before priming.

4. ENVIRONMENTAL CONDITIONS

- Substrate & ambient temperature 10–35 °C; substrate ≥3 °C above dew point throughout application and initial cure.
- Relative humidity within the selected material's limits; do not apply in falling temperatures.
- Protect the area from dust, water, direct sunlight and traffic during application and cure.

5. MATERIALS

Materials: POLYZEN anti-slip flooring system (epoxy / PU flooring system with graded anti-slip aggregate) — **or a client-approved equivalent** of the specified type meeting the project specification and standards. Exact mix ratios, consumption, film thickness and cure times are per the **selected material's data sheet**.

6. MIXING

- Pre-condition components to 15–25 °C.
- Power-mix resin and hardener to a homogeneous, lump-free consistency using a low-speed mixer; add graded filler/aggregate where used.
- Mix full kits only, exactly as supplied — no site additions of solvent or water. Respect the material's pot life.

7. APPLICATION PROCEDURE

- **Base system:** install the specified base floor (coating / self-leveling) up to the broadcast coat.
- **Broadcast:** while the receiving coat is wet, broadcast graded aggregate (e.g., aluminium oxide, silica or quartz) to refusal or at a controlled rate to set the aggressiveness.
- **Cure & de-dust:** cure, then remove loose aggregate by vacuum / sweeping.
- **Seal:** apply one or more seal coats — fewer / thinner seals = more aggressive grip; more / thicker seals = smoother, easier to clean.

8. COVERAGE, COATS & THICKNESS

- Aggregate broadcast rate and seal consumption set the slip level; per the selected material's data sheet and the specified DCOF target.

9. CURING & RETURN TO SERVICE

- Light foot traffic typically ~24 h at 25 °C (indicative).
- Return to service typically ~48–72 h at 25 °C (indicative).
- Full cure typically ~7 days at 25 °C (indicative); cure extends at lower temperatures — per the selected material's data sheet.

10. FINISHING & DETAILING

- Slip level tuned by aggregate grade, broadcast rate and number of seal coats.
- Evaluate per **ANSI A326.3** (DCOF) and **ASTM E303** (pendulum); in-service slip depends on cleaning, contamination & footwear.

11. QUALITY-CONTROL CHECKPOINTS

- Confirm aggregate grade and broadcast rate against the target slip level.
- Check seal coverage and lock-in of aggregate.
- Evaluate DCOF / pendulum on the finished sample where specified.
- Record ambient conditions.

12. DO'S & DON'TS

Do

- Match aggregate grade to the required grip and cleanability.
- Broadcast into a wet receiving coat, to refusal where maximum grip is needed.
- Communicate cleaning needs — texture holds soiling.
- Follow the selected material's data sheet.

Don't

- Don't broadcast into a coat that has started to gel.
- Don't over-seal where high grip is required.
- Don't assume 'safe' — slip depends on cleaning & footwear.
- Don't mix products from different systems.

13. CLEANING & MAINTENANCE

- Textured floors need mechanical scrubbing (deck brush / rotary) — flat mopping is not enough.
- Clean regularly to prevent soil build-up that reduces grip.
- Re-seal periodically to maintain the finish.

14. HEALTH, SAFETY & ENVIRONMENT

- Uncured epoxy resins and amine hardeners can cause skin/eye irritation and sensitisation — wear chemical-resistant gloves, goggles and protective clothing.
- Ensure adequate ventilation during mixing and application; control spills and prevent uncured material entering drains.
- Refer to the selected material's Safety Data Sheet (SDS) for full handling, first-aid, spill and disposal information.

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