



Stamped Concrete Flooring

SYSTEM FAMILY

Decorative concrete / application methodology

TYPE

Imprinted (textured) decorative concrete

NOMINAL BUILD

in-slab surface treatment

1. SCOPE & SYSTEM DESCRIPTION

This ADS describes POLYZEN's method for **stamped (imprinted) concrete** — texturing and colouring fresh concrete with mats to reproduce stone, brick, tile or timber patterns in a durable in-situ decorative surface.

Delivered as a **POLYZEN Applied System** using client-approved colour hardeners, release agents, antiquing and sealers — no POLYZEN branded product is required. Timing against the concrete's set is the critical skill.

2. SUBSTRATE REQUIREMENTS

- A correctly designed, placed and finished concrete slab of adequate strength, with planned control joints and levels.
- Sub-base compacted; reinforcement and falls set per the concrete design.

3. SURFACE PREPARATION

- Place and screed the concrete; float to an even, workable surface.
- Set out the pattern and joint layout; have stamp mats, hardener and release agent ready for the set window.

4. ENVIRONMENTAL CONDITIONS

- Place and finish within recommended temperature ranges; protect from rapid drying, rain and frost.
- Work the stamping within the concrete's set window (weather-dependent).

5. MATERIALS

Materials: delivered as a **POLYZEN Applied System** using a client-approved stamped-concrete system — colour surface hardener, powder / liquid release agent, antiquing colour and penetrating / film sealer as per the project specification and standards. Exact products, consumption, thickness and cure times are per the **selected material's data sheet**. No POLYZEN branded product is required for this system.

6. MIXING

- Apply dry-shake colour hardener as supplied; prepare release agent and sealer per their data sheets.

7. APPLICATION PROCEDURE

- **Colour:** broadcast the dry-shake colour hardener onto the floated concrete and float it in (two applications for depth of colour).
- **Release:** apply the powder / liquid release agent to prevent the mats sticking and to add antique tone.
- **Stamp:** imprint with the texturing mats **before initial set**, in sequence, tamping for full texture; detail edges and joints.
- **Cure → clean → seal:** cure; wash off surplus release; saw-cut control joints; apply the sealer (and antique) once dry.

8. COVERAGE, COATS & THICKNESS

- Colour hardener, release and sealer consumption per the selected materials' data sheets; two hardener passes for colour depth.

9. CURING & RETURN TO SERVICE

- Protect during curing; allow the sealer to cure before foot / vehicle traffic — per the selected sealer's data sheet.

10. FINISHING, DETAILING & COMPLIANCE

- Saw-cut control joints to manage cracking; antiquing for tonal depth.
- Sealer sets the sheen and stain resistance; add anti-slip additive to the sealer for slip areas (ANSI A326.3 / ASTM E303).

11. QUALITY-CONTROL CHECKPOINTS

- Verify colour, texture and pattern set-out.
- Confirm stamping completed before initial set (full texture, no smearing).
- Check joint saw-cutting and sealer coverage.
- Record ambient conditions.

12. DO'S & DON'TS

Do

- Stamp before initial set — timing is everything.
- Apply two hardener passes for colour depth.
- Saw-cut control joints.
- Add anti-slip additive to the sealer where needed.

Don't

- Don't stamp after the concrete has set.
- Don't over-apply release agent (muddies colour).
- Don't skip control joints.
- Don't seal a damp or dusty surface.

13. CLEANING & MAINTENANCE

- Routine dust-mop and neutral-pH cleaning.
- Re-seal periodically to maintain colour, sheen and protection.
- Avoid acidic cleaners on sealed surfaces.

14. HEALTH, SAFETY & ENVIRONMENT

- Silica / dust from dry-shakes and saw-cutting — use RPE and wet / extracted cutting.
- Follow the selected materials' SDS (release agents / sealers may be solvent-based).
- Provide PPE, ventilation and spill control.

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Disclaimer: this interim Application Data Sheet describes POLYZEN's typical application methodology for this class of system and is provided in good faith. It is a brand-flexible application guide; exact mix ratios, consumption, film thickness, electrical values and cure times are governed by the selected material's data sheet and the project specification. All parameters are typical/indicative and are confirmed in the project-specific Method Statement and commissioning report. POLYZEN reserves the right to revise this document; the latest version supersedes all previous.