



Epoxy Coving & Hygienic Detailing

SYSTEM FAMILY

Resin flooring detail / application methodology

TYPE

Integral cove skirting & hygienic junction detailing

NOMINAL BUILD

cove fillet + skirting

1. SCOPE & SYSTEM DESCRIPTION

This Application Data Sheet describes POLYZEN's method for forming **integral coving and hygienic detailing** — cove fillets at wall/floor junctions, upstands, plinth and drain detailing — to eliminate dirt-trapping right angles and create a cleanable, continuous seamless floor-to-wall transition.

It is a **brand-flexible application guide** applicable with a POLYZEN system product or a client-approved equivalent, applied as part of the specified floor system.

2. SUBSTRATE REQUIREMENTS

- Sound wall and floor junction; wall surface prepared and keyed to receive the cove.
- Floor prepared per the associated flooring system; anchor grooves formed at terminations where specified.

3. SURFACE PREPARATION

- Prepare and key the wall band to the cove height (typically 100–150 mm, indicative) by grinding / abrading.
- Repair junction defects; install cove former (radius) where a preformed radius is specified.
- Prime the prepared wall band and floor junction.

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 cove mortar & hygienic detailing system (epoxy / PU cove mortar & seal system) — **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

- Prepare cove mortar (resin + hardener + graded filler) to a firm, trowellable, non-slump consistency per the selected material.
- Mix full units; respect pot life.

7. APPLICATION PROCEDURE

- **Set radius:** fix cove former or trowel a fillet to the specified radius at the wall/floor junction.
- **Apply cove mortar:** trowel the epoxy / PU cove mortar to the fillet and up the wall band to the required height; shape to a smooth concave radius.
- **Terminate:** form a clean top edge (chased-in or capped) and detail around drains, plinths, doorways and thresholds.

- **Seal:** apply the seal coat continuous with the floor for a monolithic, cleanable finish.

8. COVERAGE, COATS & THICKNESS

- Cove mortar and seal consumption per the specified cove height and radius (indicative); per the selected material's data sheet.

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

- Continuous, gap-free floor-to-cove-to-wall transition.
- Detail drains, plinths and thresholds; supports hygiene compliance (FSSAI / HACCP / GMP) via cleanable geometry.

11. QUALITY-CONTROL CHECKPOINTS

- Verify cove radius, height and top-edge termination.
- Check continuity of seal from floor to cove to wall.
- Inspect drain, plinth and threshold details.
- Record ambient conditions.

12. DO'S & DON'TS

Do

- Form a smooth concave radius (no sharp internal angles).
- Key and prime the wall band before coving.
- Detail around drains and penetrations.
- Follow the selected material's data sheet.

Don't

- Don't leave gaps or steps at the floor/cove junction.
- Don't cove over unprepared / painted walls.
- Don't terminate with a loose top edge.
- Don't mix products from different systems.

13. CLEANING & MAINTENANCE

- Cleanable geometry — wash down with the floor; no dirt-trapping right angles.
- Inspect cove top edge and drain details periodically.
- Repair any damage promptly to maintain hygiene.

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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governed by the selected material's data sheet. All parameters are typical/indicative and are confirmed in the project-specific Method Statement. POLYZEN reserves the right to revise this document; the latest version supersedes all previous.