



CASE STUDY

Cardiff Warehouse Floor Refurbishment

Overview

A commercial warehouse facility in Cardiff, NSW underwent a complete floor refurbishment in preparation for a new tenancy. After many years of heavy industrial use, the concrete floor exhibited significant wear, grease staining, damaged joints, cracking, and numerous bolt holes left behind following the removal of warehouse racking.

Hi-Tech Epoxy Australia PTY LTD was engaged to restore and rejuvenate the facility floor using the A&I Coatings Endurafloor RC UV system. The result was a durable, high-performance seamless flooring solution that transformed the appearance and functionality of the warehouse, delivering a clean, professional finish ready for its next occupant.

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System Featured:

Endurafloor RC UV System

A heavy-duty epoxy and polyurethane flooring system designed for industrial environments requiring durability, chemical resistance, UV stability, and long-term performance.

- 1ST COAT Enviroset Epoxy Primer
- 2ND & 3RD COAT Enviroset 4116 Heavy Duty Epoxy
- 4TH COAT Vitrethane 633 UV Stable Polyurethane Topcoat
- Endurafloor RC UV Flooring System

Project Details:

Project Name: Cardiff Warehouse Refurbishment

Location: Cardiff, NSW

Sector: Industrial Warehouse

Floor Area: 1,500m²

Completion Date: Completed 2026

Architect: N/A

Contractor: Client Direct

Applicator: Hi Tech Epoxy Australia PTY LTD

Coating System: Endurafloor RC UV

Scope of Works:

The existing warehouse floor required significant remediation prior to coating application due to years of heavy-duty industrial service.

Surface Preparation:

- Degreasing and cleaning of heavily contaminated oil and grease-stained areas
- Full planetary grinding of the concrete surface to achieve a CSP 2-3 profile
- Repair of damaged construction joints and cracking using a high-strength epoxy mortar system
- Repair of more than 500 bolt holes following the removal of warehouse racking

Concrete Repairs

Damaged joints, cracks and worn sections of concrete were repaired using a mortar blend consisting of:

- Enviroset V4111 epoxy binder
- Kiln-dried aggregate

This repair mortar achieves compressive strengths exceeding 50MPa, delivering exceptional durability even in thin section repairs.

Areas displaying extensive concrete erosion and exposed aggregate were skim resurfaced using Enviroset 4116, restoring a uniform substrate prior to coating installation.

Features & Benefits:

Endurafloor RC UV

- UV resistant and ideal for areas with high natural light exposure
- High chemical resistance for demanding industrial environments
- Seamless, easy-to-clean finish suitable for forklift and vehicular traffic

Vitrethane 633 Polyurethane Topcoat

- Excellent UV stability for long-term colour retention
- Exceptional abrasion and wear resistance
- Tough, chemical-resistant protective finish with satin or gloss options

Typical Uses:

Endurafloor RC UV

- Warehouses and industrial facilities
- Workshops and engineering facilities
- Aircraft hangars and logistics centres

Vitrethane 633 Polyurethane Topcoat

- UV-exposed seamless flooring systems
- Protective topcoat over epoxy flooring
- Industrial areas requiring a durable, non-yellowing finish

Project Outcome:

The Cardiff warehouse was completely transformed from a tired and heavily worn industrial space into a bright, clean and professional facility ready for re-leasing.

The flooring system successfully:

- Restored damaged and deteriorated concrete surfaces
- Eliminated unsightly grease staining and wear marks
- Repaired extensive cracking, joints and bolt-hole damage
- Improved aesthetics and light reflectivity throughout the warehouse
- Delivered a durable, seamless floor capable of withstanding ongoing industrial traffic
- Provided long-term UV protection to maintain colour and gloss consistency

Hi Tech Epoxy Australia meticulous attention to detail and high-quality workmanship resulted in an exceptional finish that significantly enhanced the appearance, functionality and marketability of the facility, providing the owner with a modern industrial space ready for its next tenant.



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