

Structural Waterproofing

Wembley Central Shopping Centre

SCOPE

- // Paviments
- // Drainage
- // Structural Deck Repairs
- // Re-Waterproofing

DETAILS

- // Shopping Centre podium deck
- // Paviments and sub-base excavation
- // 1,500m² re-waterproofed with Tremco's Pumacrete
- // Reinstatement of existing paviments
- // 100LM of new bespoke movement joints installed
- // Controlled & precise planning to ensure access to retail, train station, residential & car park at all times

Case Study //

Podium Waterproofing

Client | CS2 Chartered Surveyors
Role | Principal Contractor

Before: Podium Deck With Water Ingress Into Train Platform Below



During: Podium Deck Waterproofing Membrane

The Wembley Central Shopping Centre is situated above an underground MSCP and Wembley Central Train Station with ongoing water ingress into both the sites below, meant significant waterproofing & associated works were necessary.

The existing pavements and sub-base were excavated to expose the reinforced concrete podium deck slab and undertook detailed drainage surveys. The extensive waterproofing works involved the installation of 1,500m²

Before: Movement Joints Leaking Into Car Park Below



During: New & Bespoke Movement Joints

Tremco's CPG Pumacrete podium deck membrane, bespoke movement joints and a new drainage matting layer. As well as overhauling all of the cast iron drainage system and installation of new drainage channels for surface water run-off.

A new substrate using varying materials including insulation and screed back fill to ensure weight loads were maintained and were installed to bring the build up back to existing levels followed by reinstatement of pavements.

During: Temporary Ramps & Walkways



After: Watertight & Drainage Issues Resolved

The project was logically challenging and required precise planning as all areas affected were directly in front of retail, train station, residential and car park ingress and egress routes needing access some of which 24 hours a day. We constructed temporary ramps and walkways in a phased manner maintaining access to all 3 residential blocks, in excess of 20 retail units and a busy tube/train station. All while the European Cup was on!

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