

Case Study // Intumescent Coatings

Client | **CLS Holdings**
Role | **Principal Contractor**
Consultant | **Project & Building Consultancy**

Office Parking Refurbishment

Kings Court, Leatherhead

SCOPE

- // Drainage Remedials
- // Deck Waterproofing
- // Intumescent Coatings
- // Linemarking

DETAILS

- // Office multi-storey car park
- // <70lm of replacement drainage
- // <1500m² of deck waterproofing to top deck and ramps
- // 20lm of replacement fascia
- // <3000m² of steel soffits, beams & columns protected with intumescent coatings
- // Installation of 5 number EV charging bays and ports

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Before: Steel Soffits, Columns & Beams Badly Corroded



After: Structure Repaired

The primary scope of this refurbishment was to transform the existing steelwork and reinstate 60-minute fire protection.

The steelwork was previously protected by a vermiculite-type material, many of the areas of which had delaminated resulting in loss of fire protection properties and serious surface corrosion of many steel members. All steelwork therefore had to be grit-blasted back to bright metal

Before: Split & Damaged Asphalt & Drainage



After: Fully Watertight Parking Deck

(SA2.5) to remove the existing coatings and corrosion product.

All columns, soffits and structural steelwork were then protected with a new 3-component intumescent coating which swells in the event of a fire to protect the steelwork underneath. This particular car park required a 60-minute fire rating to allow for a safe evacuation in the event of a fire.

Before: Intumescent Coatings Failed



After: New Intumescent Coatings Applied

To avoid steel corrosion from reoccurring, the car parking deck above needed to be watertight. The existing asphalt waterproofing system on the car park had failed and was re-waterproofed with Sika's RB58 fully reinforced car park decking system. This would ensure no more water ingress into the car park underneath.

For further information/advice please have a look at our website www.cemplas.co.uk.



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