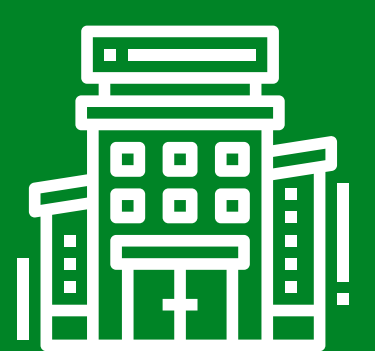




CASE STUDY: Car Park & Road Surfacing



Location: Solihull

Project: Car Park & Road Surfacing



Our Work: An old concrete road over a mile long used by heavy traffic accessing a busy hotel and riding club is severely cracking and deteriorating.

Repairs have been attempted in the past by other contractors but reflective cracking has made the life span of the repairs unacceptable, with acute potholing damaging vehicles and causing safety concerns.

The road cannot be closed for more than 24 hours due to the road users requirements and costs related to business closures.

Snapshot

- Completed in under 24 hours
- Over 1,320 tonnes of material laid

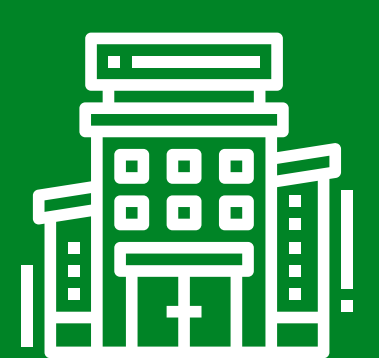
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CASE STUDY: Car Park & Road Surfacing



Solution:

We designed and planned an extremely aggressive programme of works to completely resurface the entire road in 24 hours using the following specification and methodology:

- Concrete joints raked out and filled with epoxy mortar.
- Areas totalling 1,450m² that were structurally compromised were planed down to subbase level, re compacted and laid new AC32 road base and AC20 dense binder courses both utilising polymer modified binders for added strength and flexibility.
- The entire road was coated with Colbond50 bond coat, sprayed hot by tanker to form a strong bond between all of the laying courses.
- 25mm thickness of Ulti SAMI was laid to the road. The stress absorbing membrane interlayer allows the road to flex and absorb the movement of the concrete road below, mitigating risks of reflective cracking and thermal duress.
- 45mm thickness of Utilayer10 S PMB was laid to the road. This material contains polymer modified binder to ensure the road has an extremely strong and durable wearing course whilst being able to absorb any remaining movement from below.
- Heavy 161 and 3 point of contact rollers were utilised to ensure optimal compaction levels were achieved and air voids brought to well within target specification.
- Thermoplastic linemarking was laid to make the road safe for road users.

All of the above works were completed within 24 hours with over 1,320 tonnes of material laid. The level of efficiency, organisation and experience required to complete this incredibly challenging project successfully demonstrates CSG's ability to provide solutions in the most demanding circumstances.

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