

Project:
Douglas Village MSCP

Location:
Cork

Owner/s:
Shipton Group

Main Contractor:
Hegarty Building and Civil
Engineering Contractors

Applicator:
Beton Construction Services Ltd

Engineer:
JODA Engineering Consultants

Architect:
KOBW Architects

Market sector:
Car Parks

Products used:
MasterSeal Traffic 2205
MasterSeal Traffic 2262

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Douglas Village Multi-Storey Car Park, Cork

Refurbishment of car park after fire caused millions in damage



Our reference in Cork (Ireland): Douglas Village Multi-Storey Car Park

The background

Following a major fire in the multi storey car park, an area of over 12,000m² required full refurbishment; some areas required existing deck coatings to be removed and a new system re-applied & the worse affected areas required the installation of a new concrete substrate in addition to the new deck waterproofing system

Beton Construction Services Ltd installed the MasterSeal Traffic system in 2008 and continued to maintain these systems every year since. Due to their longstanding relationship with the client, Beton Construction Services Ltd was appointed as the applicator for this refurbishment project following the fire damage

The challenge

The most serious challenges on-site were the Covid-19 restrictions & protocols affecting all contractors, working in conjunction with other trades who were also on-site and in the same areas at times Speed of installation was essential to allow the shopping centre to open on time within its tight schedule.

Despite severe fire damage to the substrate effecting preparation prior to coating application, the performance of the refurbished decks needed to be as new, plus the car park deck waterproofing system had to be able to accommodate crack movement and a range of unusual profiles and penetrations

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Douglas Village Multi-Storey Car Park, Cork

Refurbishment of car park after fire caused millions in damage



Our reference in Cork (Ireland): Douglas Village Multi-Storey Car Park

Our solution

The ramps which are the most trafficked areas needed a solution that provided a very hard-wearing polyaspartic finish. MasterSeal Traffic 2262 was specified & applied, which is an exceptionally hard-wearing, crack-bridging, skid-resistant, car park deck system; featuring a build-up system of MasterTop P622 primer to completely seal the substrate. Then a body coat of MasterTop BC375N with broadcast aggregate is applied and a top-coat of MasterSeal TC 374

MasterSeal Traffic 2205 was specified & applied in the parking bays, driving aisles and walkways areas. MasterSeal Traffic 2205 is a liquid applied, crack bridging, skid resistant, car park deck waterproofing system with spray-applied membrane; featuring a build-up system of MasterTop P622 primer to completely seal the substrate. Then MasterSeal M800 elastomeric polyurethane waterproofing membrane was spray applied (through a hot spray computer-controlled machine), and a top-coat of MasterSeal TC681

Benefits to the customer

- The customer had great experience over the past 12 years since initial construction and application with Beton Construction Services Ltd the MasterSeal Traffic systems from Master Builders UK Ltd
- Familiarity and trust with the MasterSeal Traffic systems since it was applied in the original build in 2008 and was performing to specification before the fire damage.
- Membrane applied by hot spray computer-controlled machine with a quick 30 seconds setting time, significantly decreasing any possibility of being affected by inclement weather.
- Membrane tested to 2.5mm crack bridging caters for unanticipated movement.
- Both car park deck waterproofing systems are highly resistant to spillages of vehicle related liquids

Projects facts at a glance

- Total area 12,000m²
- Strict Covid-19 protocols followed
- MasterSeal Traffic 2262 applied in Ramp areas.
- MasterSeal Traffic 2205 applied in Parking bays, driving aisles and walkways
- Application duration 6 months including Covid-19 delays
- Shopping centre re-opened on 12th November after being closed for only 12 months after fire damage.

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