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CPG Construction Products Group

Part of:



Sheffield Office: Panama House 184 Attercliffe Road Sheffield S4 7WZ United Kingdom Crayford Office: Acorn Industrial Park Crayford Rd Dartford DA1 4FT



ngdom 700 100 Award winning refurbishment solutions for car park structures



MARKET LEADERS IN:

• Lightweight Deck Waterproofing Systems

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- Expansion Joints
- Decorative Anti-Carbonation Coatings
- Mastic Asphalt
- Concrete Repairs & Corrosion Prevention
- Lighting and CCTV
- Barriers & Ticketing Machines
- DDA Compliance
- Structural Surveying and Testing
- Surface Car Parks

INTRODUCTION



StructureCare forms part of CPG Europe, which in turn, forms part of the RPM Group. Evolving from the group's expertise in the field of structural waterproofing, StructureCare offer high quality, bespoke solutions to owners and managers of multistorey, roof top and underground car parks, as well as elevated service decks and are proud to have won numerous industry related awards.

CAR PARK PROTECTION

The provision of user friendly, safe and aesthetically pleasing parking is a key factor in the success of any commercial development. However, the Multi Storey Car Park (MSCP) is a unique building with a range of specific problems that need to be addressed.

MSCP's are built using varying methods of construction with cost often being the primary consideration in their design. Accordingly, suitable protective measures are often sacrificed at construction phase, ignoring the ethos of life cycle costing principles.

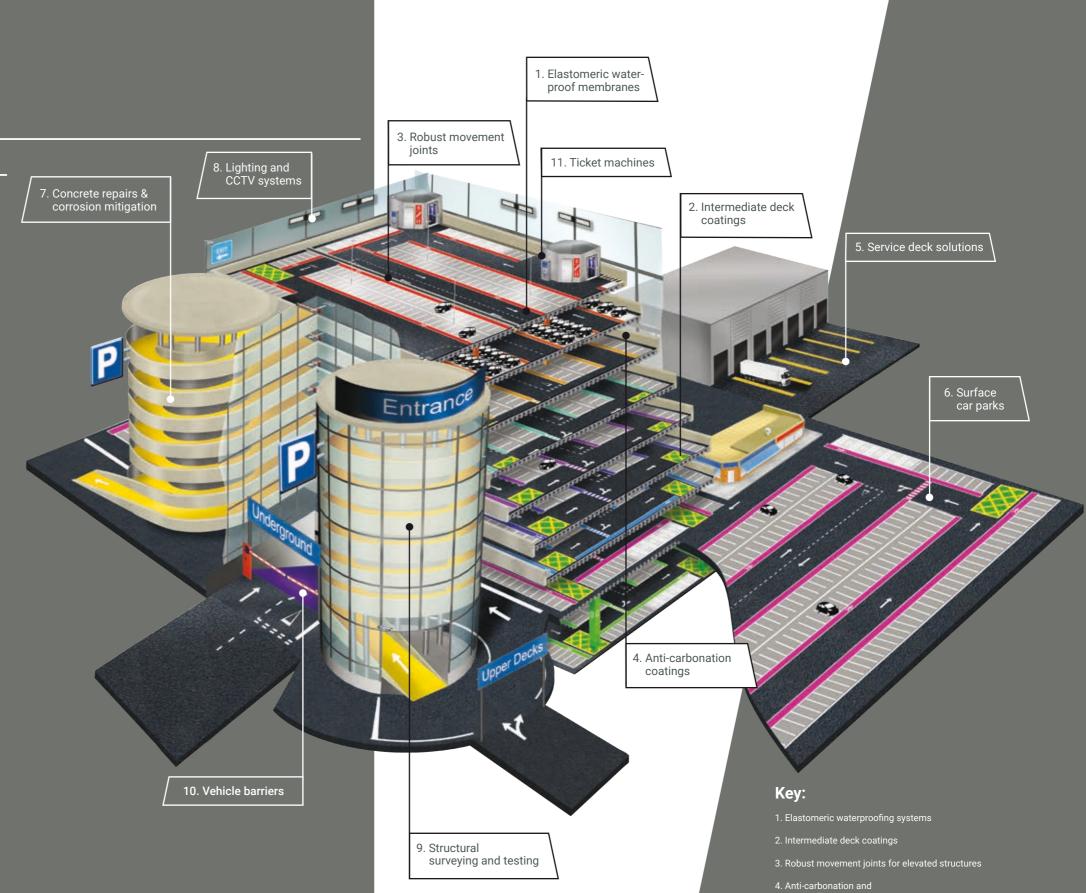
The car park as a structure is unique. Extremes of cyclical loading, often on a daily basis, occur as the car park is filled on a morning and emptied by evening. Lacking a stable heat source, the structure feels the full force of daily and seasonal temperature variations.

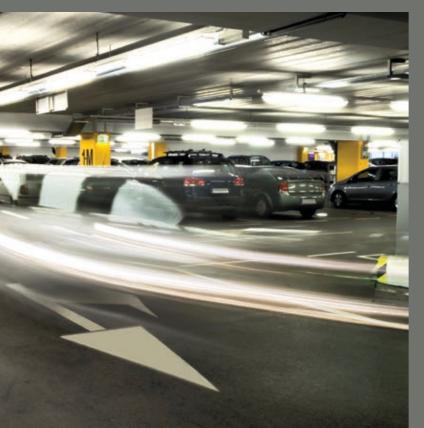
Water and contaminants are easily introduced both directly through the open sides or indirectly via cars entering the

structure. Harmful chlorides are deposited by cars and lead to chloride attack of the steel reinforcing bars. High concentrations of carbon gasses from exhaust fumes accelerate the carbonation of the concrete leading to further corrosion of the steel.

With this in mind, protective coatings and effective weatherproofing measures should be a primary consideration in a new structure.

In existing car parks, there is often visual evidence to demonstrate the effect of insufficient protection. Whilst repairs and protective coatings at this stage are often reactive measures, careful material specifications and good choice of experienced contractors can return the car park to a high level of decorative and structural well-being.





- 4. Anti-carbonation and anti graffiti coatings
- 5. Service deck solutions
- 6. Surface car parks
- 8. State of the art lighting and CCTV systems
- 9. Structural surveying and testing
- 10. Vehicle barriers







ELASTOMERIC WATERPROOFING SYSTEMS

StructureCare install a range of high quality, lightweight waterproofing systems to resolve issues of water ingress on the roof decks of multi storey car parks.

These deck coating systems are made up of a minimum of four elements, namely; a preconditioning primer coating, elastomeric membrane, wear course and a pigmented encapsulation or top coat.

Combined they provide a durable and fully trafficable deck coating system which not only prevents the ingress of harmful contaminants into the structure but can transform its appearance. The pigmented encapsulation coat allows differentiation to be made between various zones so that parking bays, running aisles and pedestrian walkways can be highlighted.

Benefits:

• 100% effective waterproofing

• Lightweight thereby minimising dead load impact

Spray application options allowing easy detailing of awkward areas and rapid cure

Outstanding crack bridging capabilities

• Excellent bond strength to substrate

- Skid resistant
- Long service life
- Cost effective
- No requirement for secondary fleece/scrim banding

wide range of deck coating systems designed specifically for installation on to the lower basement

INTERMEDIATE DECK WATERPROOFING

car park.

Due to cars retaining considerable amounts of potentially contaminated water and the effects of water being driven in through the sides of these often partially exposed structures, these deck coating systems offer considerable protection for intermediate levels.

Commonly utilising a preconditioning or primer coat and a pigmented wear course they not only offer a cost effective barrier against the effects of the ingress of water and other contaminants but allow continuity of appearance to be retained throughout the entire car park if all levels are to be treated.

Benefits:
Fast track installation
Solvent free

GI

• Very low odour rating

- Easily maintained and cleaned
- Skid resistant

Long service life

Cost effective

StructureCare are market

leaders in the manufacture, supply and installation of movement joints which have been carefully developed to provide a safe, efficient and economical method of sealing construction gaps. Applications:

 Car parks including podium decks

Footbridges

Access and egress ramps

Service decks

Benefits:

 Over 30 years use in multi-storey car park protection and refurbishment

 Specialist labour force highly experienced in car park movement joint manufacture and installation

 Rapid curing products and expert phasing to minimize disruption in busy car parks.

· Proprietary and bespoke jointing solutions

 Installed in conjunction with all waterproofing systems

 Single Point Responsibility Guarantees

MOVEMENT JOINTS







DECORATIVE ANTI-CARBONATION COATINGS

An unpainted car park not only appears dour and uninviting to the parking public, but is also exposed to serious structural deterioration caused by the process of carbonation.

StructureCare undertakes decoration and anti-carbonation processes using coatings designed to drastically reduce the diffusion rate of carbon dioxide into concrete. These systems also provide a highly durable, weather resistant surface which will maintain their anti-carbonation properties over many years.

Benefits:

- Rapid curing
- Excellent adhesion to all surfaces
- Damaged areas can easily be re-coated and re-treated after many years
- · Highly economical
- Extremely durable and weather resistant coatings
- Aesthetically pleasing
- Conforms to BS EN 1504







SUSPENDED SERVICE DECK SOLUTIONS

StructureCare are at the forefront of providing guaranteed, long-term solutions to these often problematic areas. Combining our rapid curing, highly elastomeric, spray applied membrane to the underlying, exposed concrete structure, guaranteed waterproof protection is provided immediately. StructureCare can then reinstate a heavy duty surfacing, taking the form of either a SMA, HRA or Grouted Macadam, depending on the particular demands of the location. These wearing courses provide extremely durable, trafficable surfaces, (that can greatly reduce the effect of surface deformation caused by large service vehicles.) whilst providing a protective layer over the underlying, waterproof membrane.

Benefits

Rapid installation times

Guaranteed waterproof protection

 Incorporation of various, in-house joint systems where expansion joints are located within the deck areas

• Durable wear courses that can be upgraded to provided minimal wheel deformation CONCRETE REPAIR SOLUTIONS & CORROSION MITIGATION

StructureCare are able to offer a wide range of concrete repair services, ranging from traditional methods through to advanced solutions such as cathodic protection.

We are a leading specialist in the field of corrosion mitigation and prevention including galvanic and hybrid anodes, as well as ICCP.

Using a range of products and systems supplied by some of the world's largest construction chemical companies, we are able to provide cost effective, technically advanced solutions for various repair criteria.

Benefits:

Compliant with European
Standard EN 1504

- Concrete repairs fully compatible with deck coating systems
- High build and lightweight repair systems available
- Corrosion Mitigation compliant with BS EN 12696



STRUCTURAL SURVEYS & TESTING

StructureCare undertake detailed structural surveys and testing of multi storey car parks as required by our client's specific needs.

Testing can include reinforcement cover surveys, depth of carbonation measurements, half-cell potential measurements, and dust sample analysis to determine chloride ion and cement content.

These tests allow the client to fully understand the condition of their car park and form the basis of a repair scope of works and a Life Care Plan. State-of-the-art measuring and testing methods

Benefits:

 Highly qualified and experienced staff

UKAS accredited testing

Comprehensive, meaningful and iterative report format

SURFACE CAR PARKS

Surface car parks are much more common than multi storey car parks. Defects including pot-holes, depressions, incorrect falls and aggregate loss can cause a real safety threat to the users of these facilities.

There are many potential options that can be provided when working with Asphalt or Macadam from full car park constructions to surface course replacements and overlays. Whatever you have in mind for your refurbishment there will be an Asphalt or Macadam system to suit practicalities and budgets.

We use a combination of the latest machine technologies and traditional hand lay methods tailored to making your refurbishment an easy transition.

Benefits:

- Quick to Lay
- Cost Effective
- Sustainable
- Durable
- Versatile
- Maintainable
- Decorative & anti-slip walkways
- Areas can be utilised a few hours after laying
- In-house tactile paving and drainage solutions