

StructureCare

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Solutions for Sports Stadia and Event Parking Facilities

- Structural Waterproofing & Protection
- Expansion Joints



THE NEED FOR EFFECTIVE WATER MANAGEMENT SOLUTIONS

Reinforced concrete structures are constantly under attack as water, chlorides, acid rain, de-icing salts and freeze-thaw cycles act on them. Extreme weather cycles, the impact of foot traffic and vibration place these structures under further stress. As steel reinforcing bars corrode, expansive forces can lead to cracking and further deterioration.

The costly disruption caused by the resulting intrusive repair work impacts on both the use of the facility as well have a having an unavoidable negative commercial impact.

As moisture is a key component in the corrosion process and subsequent concrete deterioration, incorporating sufficient structural waterproofing at the design stage is by far the most cost-effective option, often lasting for the life of the structure itself.



Stadiums



Car Parks



Green Roofs & Podium Decks



Special Projects

AREAS OF EXPERTISE

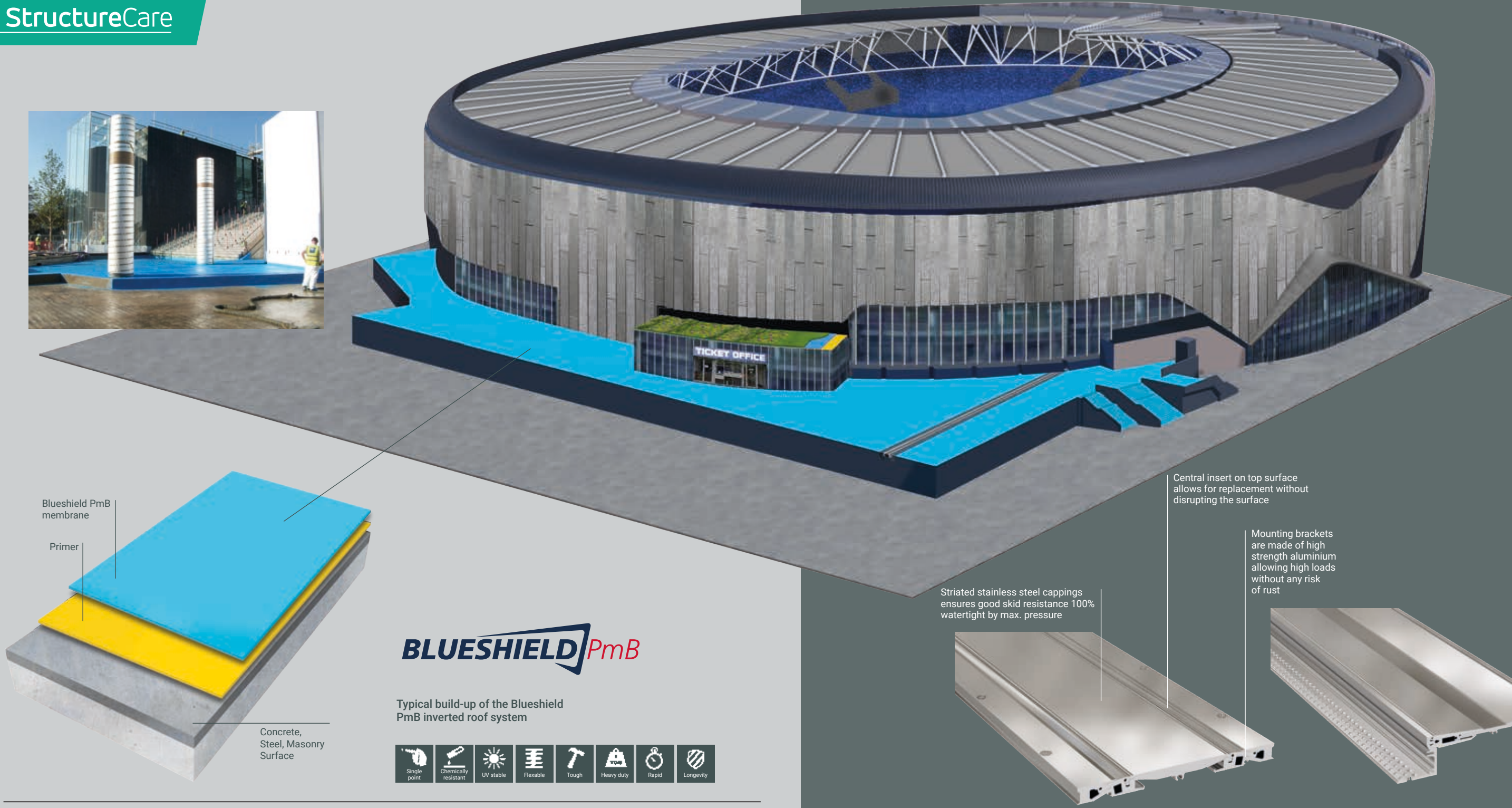
PROVEN TRACK RECORD

Using a range of state of the art, high performing, proprietary systems, our directly employed and highly skilled workforce will work with you, to find the right solution for your structure.

Our key differentiator within this niche market is derived from our strategic status as both manufacturer and installer of cutting edge and innovative products, allowing us to promote the unrivaled benefits of single point responsibility. This includes concrete repair systems, protective coatings and sealants, expansion joints and the market leading BBA approved Blueshield PmB structural waterproofing membrane.

SINGLE POINT RESPONSIBILITY

StructureCare forms part of CPG Europe. Evolving from the group's expertise in the field of structural waterproofing, StructureCare offer high quality bespoke waterproofing solutions to owners and occupiers of stadia, podium decks and other elevated structures.



STRUCTURAL WATERPROOFING & PROTECTION

Blueshield PmB is a rapid curing, fully bonded, spray applied, durable structural waterproofing system..

The high performance membrane is 100% polyurethane, containing no fillers or additives and is VOC free. Once applied, Blueshield PmB has exceptional bond strength to all commonly used substrates, has a life expectancy in excess of 30 years and holds British Board of Agrément approval.

Key features and benefits:

- Proven track record of over 30 years
- Rapid installation and cure allow for application to horizontal, vertical and soffit surfaces
- Unrivalled crack-bridging and adhesion properties
- Materials can be applied to 7 day old concrete, at temperatures as low as 0°C
- Spray application ensures difficult detailing and penetrations are easily incorporated
- Blueshield PmB requires no pre application chases or fillets
- Low odour and no hot works
- Excellent chemical resistance
- Comprehensively tested puncture resistance capabilities
- Effective root barrier in landscaped areas and suitable for use in areas permanently immersed in water
- Full integrity testing to all installations
- Manufactured in the UK and installed to ISO 9001:2008

WATERTIGHT MOVEMENT JOINTS

The new stadium for Tottenham Hotspur Football Club required an effective and proven waterproofing system at podium level, joined for complete integrity into waterproof movement joints capable of up to 100mm of movement.

The design and installation of the complete system was achieved using our Group's internal supply chain for all products. This extended to the installation of the expansion joints by StructureCare's own highly trained and experienced workforce ensuring the podium level waterproofing envelope was

completed efficiently and with complete confidence in its fully tested performance.

Buried after installation, the waterproofing layer was situated some 150mm below the finished paved level, which too required high quality movement joints to accommodate the designed expansion and contraction as well as the considerable footfall on match days.

The Migutrans surface joints had to be mechanically fixed to meet the project specification as well as ensuring the complete integrity of the waterproofing. StructureCare's internal supply chain and in-house workforce provided the perfect answer.

Product benefits:

- Rapid on site assembly
- Minimal disruption to traffic
- Minimised future maintenance costs
- Easy to install and detail at design stage
- Adaptable to numerous applications
- Excellent global track record
- Unparalleled bond to concrete and steel decks



Above: Operatives applying Blueshield PmB to the concourse using sophisticated spray technology

ICONIC STADIUM DEVELOPMENT PROTECTED BY BLUESHIELD PMB

The Northumberland Development Project is a mixed-use development project that centres on the building of the new Tottenham Hotspur Stadium to replace White Hart Lane as the home ground of Tottenham Hotspur. The stadium has a planned capacity for 62,062 spectators, and is designed to host football as well as NFL games.

The development plans also include 579 new homes, a 180-room hotel, a local community health centre, the “Tottenham Experience” – a Spurs museum and club shop.

The Northumberland Development Project is intended to be the catalyst for a 20-year regeneration program planned by the Haringey Council to spur on growth and wider changes in Tottenham.

SCOPE OF WORKS

StructureCare was engaged by their client to install 16,000m² of Blueshield PmB structural waterproofing and movement joints to concourses & access ways at The Northumberland Development Project.

WHY STRUCTURECARE?

- Able to offer a ‘single point’ solution guarantee for the manufacture, supply and installation of podium waterproofing and movement joints
- Ability to provide and design engineered solutions
- Able to provide flexible and multi-skilled resource allowing for the potential to accelerate outputs if necessary

WHY BLUESHIELD PMB?

- Used on a variety of prestigious construction projects around the world including suspended podium slabs, flat roofs and elevated service decks, the Blueshield PmB membrane provides a guaranteed watertight solution and ensures your building envelope remains dry.
- Permanently waterproofing structures worldwide for 40 years
 - Globally specified by many leading engineers and architects
 - Incomparable track record
 - Unrivalled and enviable single point responsibility guarantees



Above: 3-11 multi-skilled operatives working on this prestigious project over a 18 month period



Above: Blueshield PmB lapped onto Migupren to ensure complete waterproofing integrity

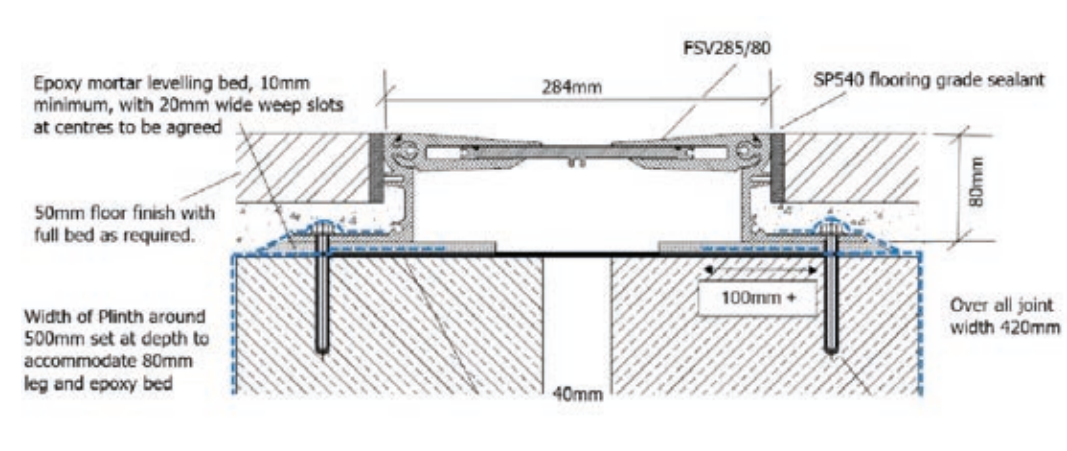


BLUESHIELD PMB AND HIGH MOVEMENT CAPACITY MIGUPREN JOINTS

Mark Blackburn, Divisional Manager of StructureCare said “We are proud of our successful involvement in the New Northumberland Development.

Our contracting team has delivered a first class installation of the Blueshield PmB spray applied waterproofing system, tied to high movement capacity Migupren joints to ensure complete watertight integrity at podium level. Following the application to the podium slab, working for AJ Morrisroe, we were subsequently employed by landscaping package contractor, Carey’s, to install the surface movement joints.

The chosen Migutrans range complimented the paving design, tied perfectly with the total waterproofing and joint system below and offered Tottenham assurance of ‘single point’ responsibility for product and installation through our group.



Above: Detail of combined waterproof and movement joints at Tottenham Hotspur Football Club



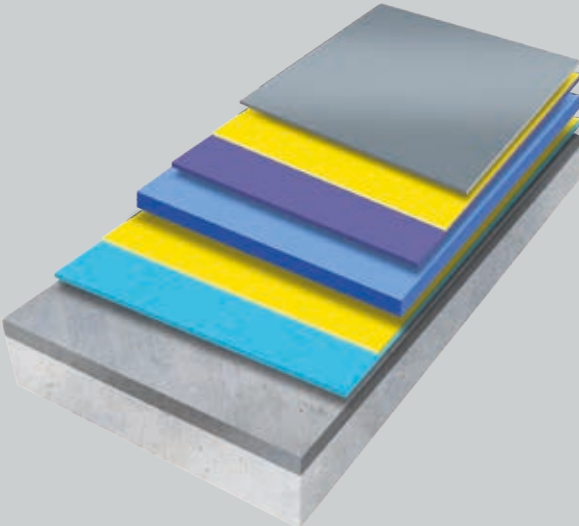
DeckProtect⁺ is a comprehensive range of hybrid cold liquid applied systems that utilise the most effective technologies in car park protection today. All DeckProtect⁺ systems are designed by StructureCare chemists to be safe and user friendly.

Unlike other systems, the DeckProtect⁺ suite of products combines Polyurethane (PU), Epoxy (EP), Methyl Methacrylate (MMA) and Polyaspartic (PA) technologies allowing specialist contractors to tailor a solution that meets all the requirements of a new build or refurbishment car park project.

DeckProtect⁺ has become the 'system of choice' for car park coatings throughout the UK, with in excess of to 500,000m² installed in the last 5 years.

- System Benefits:**
- Tough and durable
 - Exceptional crack bridging and elongation
 - Fast curing - Ideal for a rapid return to service
 - No requirement for secondary fleece or band coats
 - Easy to clean
 - Excellent skid resistance
 - Low odour
 - Quality aesthetics and colour range

- Applications:**
- Substrates: Concrete, mastic asphalt & existing coatings
- Exposed Car Park Decks
 - Internal Car Parks
 - Underground Car Parks (low odour)
 - Ramps & Turning Circles
 - Rooftop (over-occupied) Car Parks



BLUESHIELD PMB WATERPROOFING AT WEMBLEY!

Europe's first multi-storey coach park was completed in the autumn of 2019. Mark Blackburn, from StructureCare, explains some of the decisions made in the construction of Wembley Pink.

The team at StructureCare was heavily involved with the £41m, purpose-built parking complex next to Wembley Stadium. Known as Wembley Pink because of its pink-coated decks, it is Europe's first multi-storey coach park, as well as boasting a five-storey, 734-space car park.

StructureCare was approached for advice on the car and coach parks' waterproofing packages because of the versatility of its in-house manufactured DeckProtect⁺ coating system. DeckProtect⁺ is the UK's only hybrid-technology coating system and offers numerous benefits to the end users and installation teams – including speed of cure, no odour during application, and fantastic durability.

The exposed decks of the car park benefitted from the application of DeckProtect⁺ Blueshield – a highly elastic and easy-to-clean top-deck system – while the internal levels were coated with DeckProtect⁺ Rapidflex, a fast-curing, intermediate-deck specification.

Careful thought was given to the waterproofing of the 290-space coach park because of the anticipated high levels of wear. Ultimately, DeckProtect⁺ Blueshield MA was selected. This premium and proven solution ensures an excellent bond to the substrate, while providing continued flexibility throughout the life of the structure.

PARKING INVESTMENT

At full capacity, the parking complex accommodates up to 16,500 visitors, representing a major investment in parking for Wembley Stadium and the SSE Arena, as well as the surrounding 85-acre development taking place at Wembley Park.

The coach park is laid out over two levels, each with its own entrance. Coaches are organised according to their length, height and weight. The five-storey car parking structure, built above the coach park, has its own entrance.

The novel design, by architect Potter Church and Holmes, has taken inspiration from the 3D Rubik's Cube puzzle, and uses innovative engineering to ensure coaches, cars and pedestrians are able to use the car park easily and safely.





COMPLETE STADIA SOLUTIONS FROM STRUCTURECARE

ANCILLARY PRODUCTS

- StructureCare can also offer;
- Anti-slip flooring, GRP stair nosings, treads and handrails
 - Concrete repair and protective coatings
 - Slab lifting and leak sealing
 - Adhesively fixed tactile paving for the visually impaired

SURVEYS & BESPOKE SPECIFICATIONS

- Our pre-contract free of charge services include:
- Site surveys
 - Substrate adhesion testing
 - Substrate compatibility testing
 - Bespoke specifications
 - Project specific CAD details
 - Budget Costs

Once your project commences, we provide friendly and knowledgeable technical support through to completion.

RESEARCH & DEVELOPMENT

To ensure that we remain at the forefront of the industry, we develop and constantly innovate. Our in-house research and development facilities to carry out testing to BE EN 1504, European Technical Approvals and DIN Standards.

TECHNICAL & ON-SITE SUPPORT

All of our clients receive the same level of technical service, support and backup right through to the delivery of the finished project.

To assist our clients in the selection, design and ultimately the procurement of the most effective solution for their waterproofing projects, our technical team also offer a free of charge 12 month inspection service to ensure your waterproofing surface is performing as expected.

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