



High Performance Structural Waterproofing for Roofs, Podia & Balconies



BLUESHIELD PmB

PITCHMASTIC PmB

www.pitchmasticpmb.com

Pitchmastic PmB, the global market leading structural protection specialist, offers a comprehensive range of products and services to protect structural assets from environmental and corrosive attack.

With over 30 years' experience in applying over 11,000,000m² of waterproofing, **Pitchmastic PmB** is one of the largest and most respected organisations in the industry. The name has come to represent absolute quality coupled with the ability to find the correct solution for every project undertaken.

Key To Symbols

-  Single point responsibility
-  Chemically resistant
-  Rapid
-  Flexible
-  Tough
-  Heavy duty
-  Longevity

All Encompassing Waterproofing

Blueshield PmB is a two part, blue pigmented polyurethane elastomer. The spray applied membrane is pigmented blue to highlight application and gels in seconds to provide a seamless, fully adhered barrier to ingress of water and other contaminants.

Blueshield PmB has been formulated by chemists to be safe, user friendly, and high performing.

Blueshield PmB offers clients the perfect balance between design, aesthetics and practical performance, with a track record of over 30 years.

Spray Applied

Through the avoidance of seams, joints and fixings, potential weak spots are eliminated. The client is provided with a completely homogenous, seamless waterproofing solution, protecting their asset and allowing treatment of virtually all types of construction.

Market Leading Guarantees

To provide an unrivalled level of comfort to building owners, managers and occupiers, and to future-proof asset values, **Blueshield PmB** guarantees are of a single point nature avoiding the all too common contractor/manufacturer blame culture phenomenon.



Roofs



Podia



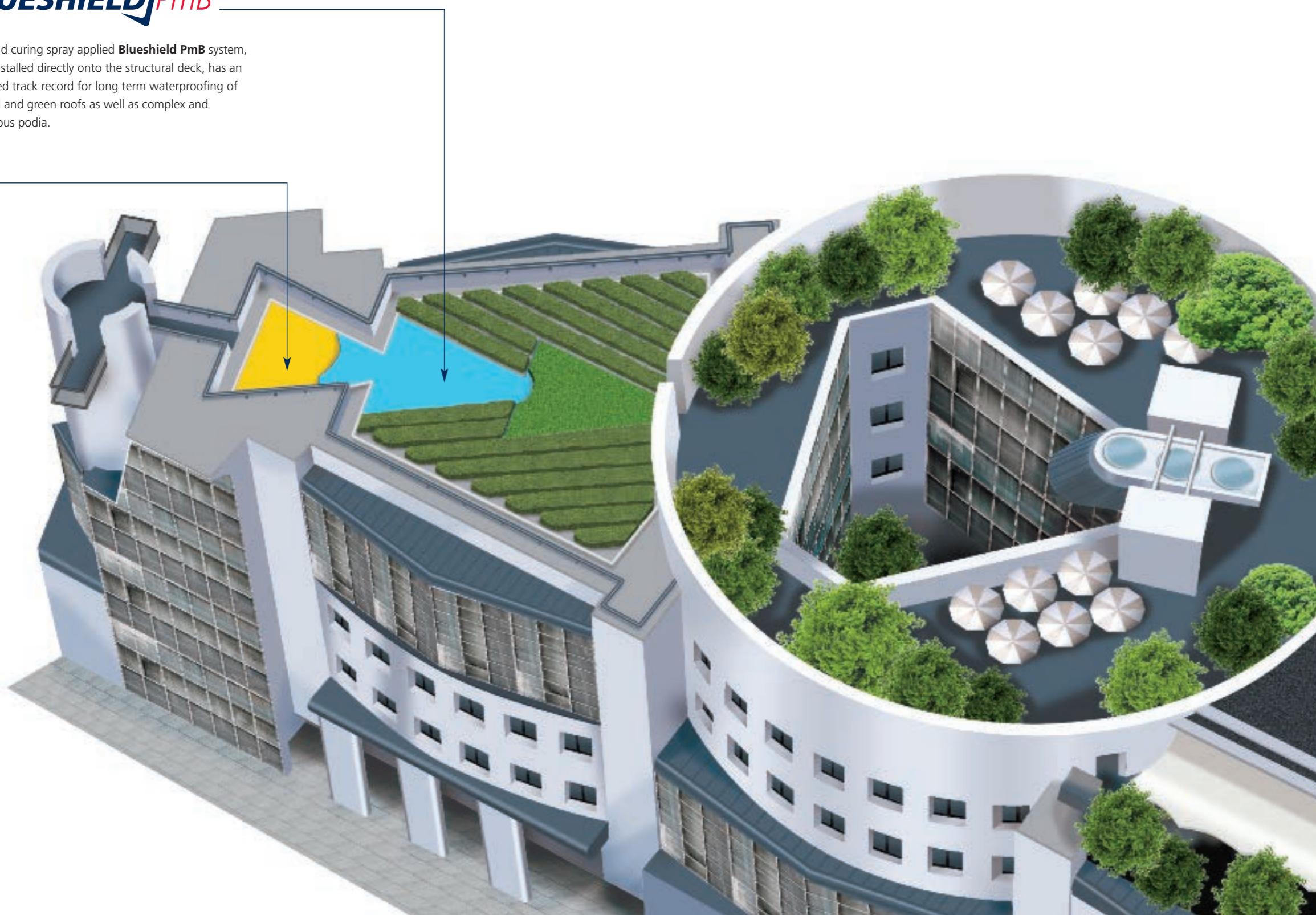
Balconies

Long-lasting & Safe Structural Waterproofing

BLUESHIELD PmB

The rapid curing spray applied **Blueshield PmB** system, when installed directly onto the structural deck, has an unrivalled track record for long term waterproofing of inverted and green roofs as well as complex and prestigious podia.

Primer



Roofs, podia & balconies place very high demands on the waterproofing material used, particularly in areas where there are residential buildings, underlying offices or production plants. **Blueshield PmB** offers many advantages compared to conventional waterproofing membranes. The spray applied polyurethane structural waterproofing system is long-lasting, can withstand mechanical loads, and is totally weather resistant. **Blueshield PmB** can also be used underneath other coverings, such as gravel, paving or grass. Its high resistance to hydrolysis means it can even be used in standing water applications.

Applications

The **Blueshield PmB** system is designed to provide a high performance fully-bonded waterproofing membrane to:

- Podium decks
- Balconies
- Plaza
- Terraces

Its enhanced performance is ideally suited for:

- Landscaping
- Paved areas
- Planters
- Water features
- Green & brown roof applications

It also provides protection to:

- Basements
- Plant rooms
- Underground parking facilities
- Tunnels, bunds/tanks

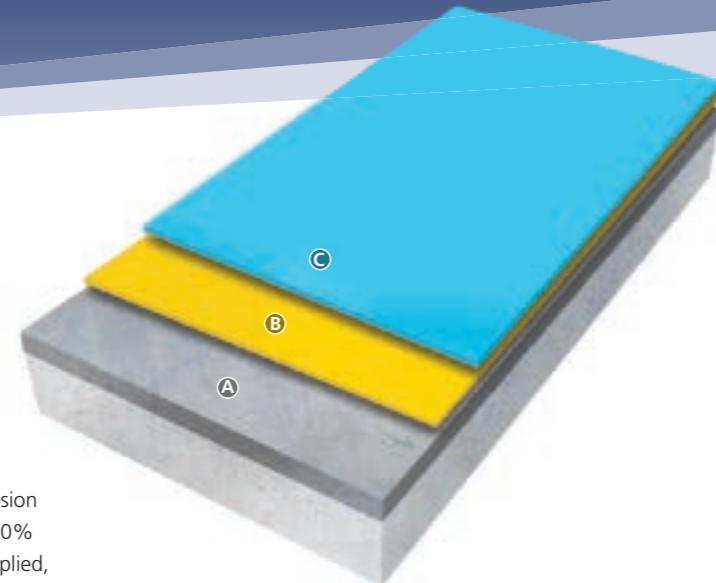
The System

BLUESHIELD PmB

Blueshield PmB is a rapid curing, two part, spray applied, durable corrosion protection & waterproofing material. The high performance system 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:

- 100% effective with proven track record of over 30 years
- Rapid installation and cure allow for application to horizontal, vertical and soffit surfaces
- Superior crack-bridging and adhesion properties
- Materials can be applied to 24 hours-7 day old concrete, at temperatures as low as 0°C
- Spray application ensures difficult detailing and penetrations are easily overcome
- Blueshield PmB requires no pre application chases or fillets
- Low odour
- Excellent chemical resistance
- Fully 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 and installed to ISO 9001:2008



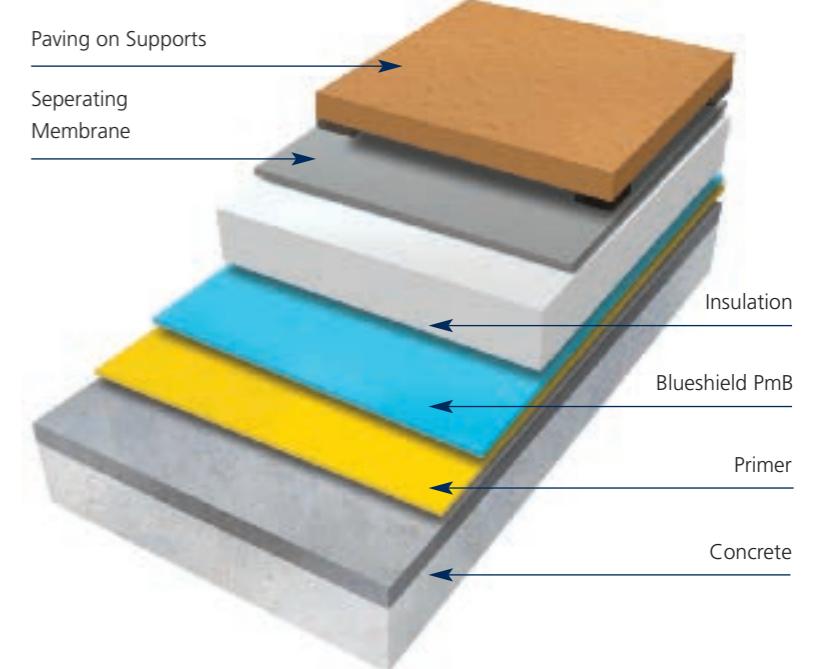
Typical build-up of the Blueshield PmB inverted roof system

- A - Concrete, Steel, Masonry Surface
B - Primer
C - Blueshield PmB membrane

Blueshield PmB membrane icons:

- Single point
- Chemically resistant
- UV stable
- Flexible
- Rough
- Heavy duty
- Rapid
- Longevity

Inverted system suitable for plazas & terraces



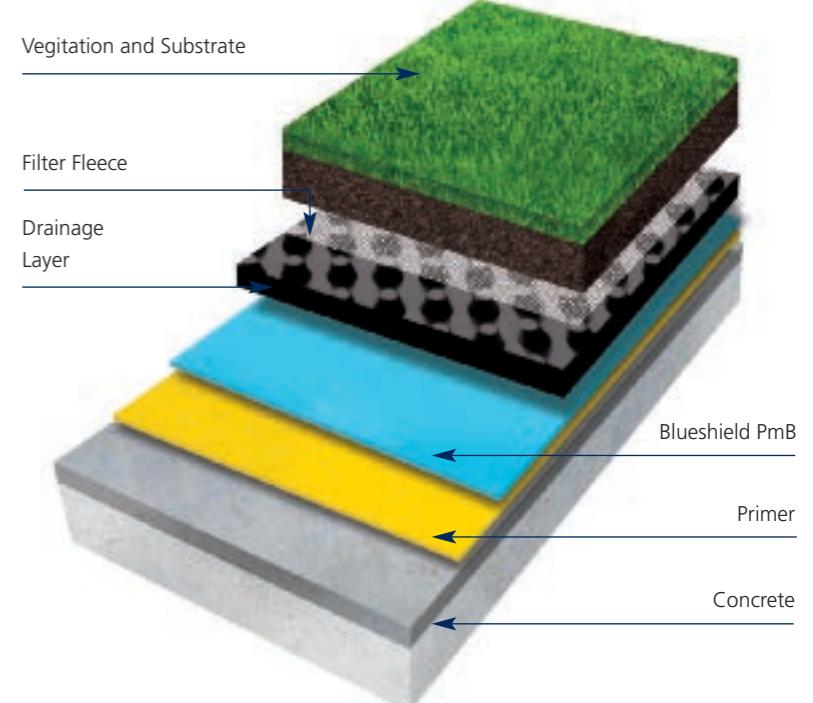
The **Blueshield PmB** inverted roof system completely upgrades the thermal performance of the roof - delivering compliance with Part L of the Building Regulations (Conservation of Heat & Power) - whilst providing long-term waterproofing and creative scope to dramatically improve the appearance of the roof by the introduction of paving or grass.

It can be used to create roof gardens and terraces and is also suitable for private balconies. It is ideal for new-build applications but equally suited to refurbishment.



Coatings used in **Blueshield PmB**
25 year systems are approved by the
British Board of Agrément.

Green roofs



Project Case Studies

Blueshield PmB Protects Exclusive Housing Development in London



Battersea Reach is located on the banks of the River Thames in the heart of London, United Kingdom. Established as an exclusive waterside community, Battersea Reach has more to offer than just fine living space. Residents can enjoy convenient living in enviable surroundings.



To protect the prestigious development against water ingress the project required a combined waterproofing solution that would not only be effective but would also be able to cope with the complex detailing and on-site challenges. **Blueshield PmB** was selected and recommended by Broadway Malyon, the project Architects for St. George Developments.

The roof and terraces, once watertight and insulated were then finished using Marshall's Conservation Paving & Twinson composite decking. Prior to the application of the waterproofing system the substrate was prepared and Tensile adhesion tests were then taken to confirm that the required bond strength of membrane to substrate would be achieved.

Once this had been completed the substrate was sealed with **Blueshield PmB** primer, to ensure that there would be no outgassing from the concrete and further enhancing the adhesion of the subsequent membrane.

Once the primer has cured **Blueshield PmB** was then spray applied to 1,200m² of the roofs & terraces (over multi-visits) and 3,500m² of the podium (over multi-visits).

The strict quality control measures required of **Blueshield PmB** include concrete moisture and temperature checks, air temperature reading and film thickness tests carried out throughout application which helped ensure the required thickness was achieved.

Use of **Blueshield PmB** spray applied membrane ensures rapid installation and cure, including difficult penetration details to meet strict programme requirements.

The choice of **Blueshield PmB** removed the gamble from the waterproofing of this prestigious development. It enabled an extended, potentially difficult waterproofing contract to be successfully completed 4 weeks ahead of schedule and has given Battersea Reach a waterproofing system which will provide a long service life and effective protection for many years to come.

Blueshield PmB High Performance Waterproofing for Orbit Homes



St Anne's Quarter is a new residential and retail development in the heart of Norwich, inside the original city walls offering a selection of studios and apartments.



Located off King St, alongside the River Wensum which flows through the city and on towards Yarmouth and only a short walk from the city centre, the Riverside entertainment area and Norwich's main line railway station, it is both a convenient and attractive location.

4,000m² of **Blueshield PmB** has been used to waterproof the external podium deck areas that surround the luxurious housing development.

Blueshield PmB was chosen ahead of originally specified hot melt systems because of its outstanding qualities which include speed of installation, rapid cure, exceptional bond strength and detailing capabilities.

Blueshield PmB is a two part, spray applied, durable corrosion protection and waterproofing material.

The high performance system is 100% polyurethane, containing no fillers or additives and is VOC free. Once applied, **Blueshield PmB** has excellent crack bridging capability, a life expectancy in excess of 30 years and holds British Board of Agrement approval.

Unlike other specialist waterproofing companies USL StructureCare were able to offer the client the comfort of single point responsibility for the waterproofing element of the contract as **Blueshield PmB** is manufactured in-house by sister company Pitchmastic PmB.

This unique offering avoids the all too common 'manufacturer and approved contractor' back to back guarantee, which, when issues arise, often leaves the customer having to determine whether material failure or installation is to blame.

ISG (main contractor) now specify the use of **Blueshield PmB** for all of their major structural waterproofing projects.



Success For Blueshield PmB at Millbrook Park

Located on the edge of Mill Hill's conservation area, the houses and apartments of Millbrook Park will enjoy a fantastic, tranquil location with connections into central London from nearby Mill Hill East tube station. Millbrook Park will eventually be a development of 2,400 new high-quality apartments and houses in a landscaped parkland setting. The development will also provide 500 new jobs, a school, green infrastructure including a new energy centre and sustainable urban drainage system (SUDS) across the site.



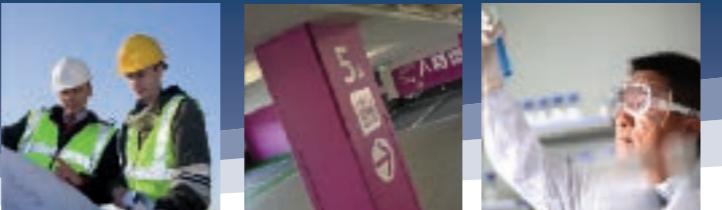
USL StructureCare was engaged by main contractor Foundation Developments Ltd on behalf of Taylor Wimpey to install 200m² of **Blueshield PmB** to up-stand details prior to the installation of a further 1800m² to the podium which will be the prestigious sites landscaped garden feature.

The choice of **Blueshield PmB** removed the gamble from the waterproofing of this stunning development. Use of **Blueshield PmB** spray applied membrane ensures difficult detailing and penetrations are easily overcome.

Rapid installation and cure allow for easy application to horizontal, vertical and soffit surfaces. It enabled an extended, potentially difficult waterproofing contract to be successfully completed ahead of schedule and to the complete satisfaction of main contractor and client.

Blueshield PmB is Taylor Wimpey's waterproofing system of choice because of its ability to deal with complex waterproofing issues.

The Complete Structural Waterproofing Solution



Our Group

Pitchmastic PmB are part of the USL Group of companies - a global manufacturer and installer of specialist construction products offering turnkey solutions for bridges, tunnels, car parks, roofs, utilities, oil & gas projects.

Our Brands



www.usluk.com

Roof Surveys & Bespoke Specifications

Through licensed applicators and independent roof consultancies, Pitchmastic PmB undertake extensive surveys of all roof types to identify defects, sources of leaks and reasons for deterioration.

This includes Electronic Leak Detection, Thermal Imaging and Flood Testing.

Our pre-contract free of charge services include:

- Site surveys including targeted core sampling
- 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. Pitchmastic PmB has in-house research and development facilities to carry out testing to BE EN 1504, European Technical Approvals and DIN Standards.

Manufacturing & Environmental

All Pitchmastic PmB products are manufactured under the international ISO 9001 Quality Management standard ensuring that our products satisfy the customers quality requirements and comply with any regulations applicable to those products.

All products are manufactured in the UK under international ISO 14001 Environmental Management standards confirming our commitment to the minimisation of the environment impact of our activities. In the interests of ecological corporate development we strive to achieve constant improvements in our company's environmental awareness.

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 roofing projects, our technical team also offer a free of charge 12 month inspection service to ensure your roof surface is performing as expected.





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