



British Manufacturing
BRICKSPAN® FAST FIX
Next Generation Façade Technology

Next Generation Façade Technology

Allowing Buildings and Structures to
Freely Breathe Through the Brick Surface



Providing Greater Fire Safety and Building Protection



Innovation at its best:

“Our aim is to lead the future development of architectural façades by utilising all the benefits of innovative technology to secure and maximise building protection and safety.”

Paul James Bishop
Managing Director

Brickspan Developments

Building a Reputation for Quality and Benchmarking

Our Vision:

Brickspan® is committed to research and development of cutting edge construction methods.

We continue to research and develop brick, slate and sandstone for world-class façades and modern cutting edge construction solutions.

Brickspan® Fast Fix provides safer, lighter, greener and smarter construction methods that modern responsibilities are demanding.



Our Values:

Brickspan® Developments are setting benchmarks to service the domestic and global market by providing a unique and innovative fast fix brick façade solution.

A central goal of our business has been to develop new brick façade technology that reduces time and skills required for on site brickwork application.

We have developed automated manufacturing processes, which incorporate advanced state of the art technology along side traditional brick making artisans.

A key part of our business is to strive to improve performance and conduct by developing our own customer relationship management system, tailored to our clients and customers requirements and objectives.

We continue to develop strategic partnerships with proactive and progressive like-minded companies within our field.

This will assist in identifying markets and companies internationally as trading partners with compatible synergising systems.

Our Products:

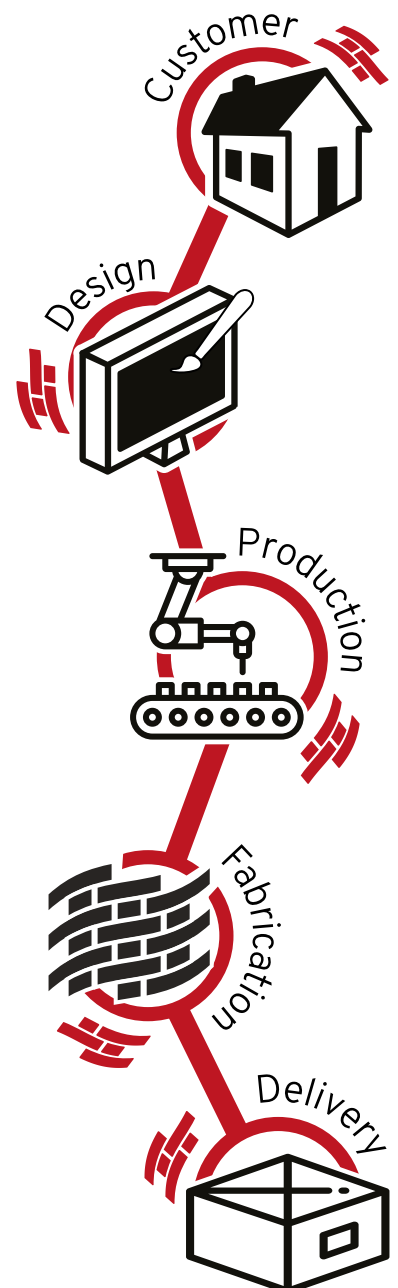
Brickspan® is a Worldwide patent pending, CTM branded and CE certified brick wrap wall covering for the construction and design sectors.

Our products have been rigorously tested by the relevant bodies and have been found to meet, and exceed, all industry required standards.

Formulated from 95% minerals bound in cross-linked polymers forming a colourfast, frost and fireproof fast fix brick system.

Resistant to bulk water and fully flexible while allowing existing structures, wall systems or new buildings to freely breathe beneath its surface.

Eliminating the risk of lime bloom, efflorescence or façade whitening complying fully as a non-hazardous, eco friendly and sustainable product.



So what is it that makes Brickspan® Fast Fix Wrap so different?



Brickspan® Fast Fix is manufactured to a flexible state which uniquely retains a brick-like hardness.

Brickspan® Fast Fix also comes with the added benefit of a range of essential design and safety features.

Yes, at Brickspan® we really believe our approach to innovative product design and technology has achieved the seemingly impossible in the field of construction development – a uniquely versatile, highly practical product which takes full account of the need for responsibility in terms of ensuring environmental integrity alongside the primary roles of safety and building protection.

- ◆ Brickspan® cleverly combines great versatility in use with the advantage of being a 95% natural, mineral-body product which is both sustainable and eco-friendly.
- ◆ Brickspan® has developed unique techniques that cross-link polymerisation technology with processes that do not use any cement or lime, thus eliminating the risk of the efflorescent lime bloom associated with bricklaying.
- ◆ Brickspan® is breathable, fully resistant in colour to progressive UV fading, frost and fire-resistant and, with a weight of only 5kg per m², can be used for both internal and external applications.

Brickspan® Fast Fix brick system is fire rated to exceed 18 metres in height.

With the British and World-Wide Patent pending, this leading, versatile building material is now claiming its right as the next-generation, architectural façade technology. Specially formulated for modern construction methods and design, for both on and off-site manufacturing.

Intellectual Property Rights can be downloaded from our website at www.brickspan.co.uk

Fast Fix Suitability

Brickspan® Fast Fix, though extensive testing and it's unique flexible, breathable and fire resistant properties provides suitability for most internal and external wall substrates:

- ◆ Interior design, Internal partitioning plasterboard on lightweight studwork.
- ◆ Sound and suitable prepared internal plaster and external render.
- ◆ On-site brick faced refurbishment of existing modular buildings.
- ◆ Panelised on and off site construction systems.
- ◆ Cement particle and mineral boards.
- ◆ Timber frame and steel frame construction.
- ◆ High-rise rainscreen façade systems.
- ◆ All types of concrete surfaces.
- ◆ Sound and suitably prepared wall tiles.
- ◆ Tanking and concrete repair systems.
- ◆ Stone, brick and blockwork.
- ◆ EWI insulated systems.



Kembel London Stock
MRB/10/KLS



Ladwell Red
MRB/10/LR



Overston Buff
MRB/10/OBS



Stretton Red
MRB/10/SR



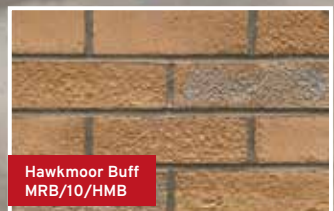
Birnbeck
MRB/10/BB



Brettingham Red
MRB/10/BR




Claygate Grey
MRB/10/CG



Hawkmoor Buff
MRB/10/HMB



CE	
 British Manufacturing BRICKSPAN [®] Next Generation Façade Technology Brickspan Developments Limited Unit C4, Mamhilad Park Estate, Pontypool, Torfaen, NP4 0HZ 17	
EN 15102:2007+A1:2011 Decorative brick wallcovering	
Reaction to fire class	A2, d0
Release of formaldehyde	<120 mg/kg
Release of other dangerous substances:	
- of heavy metals and specific elements	<Barium 500 mg/kg
- of vinyl chloride monomer (VMC)	<1 mg/kg
Sound absorption	NPD
Thermal resistance	NPD

Fire Resistant Open Pore Technology



Modular Home - Manchester



Brickspan® Fast Fix and Fast Fix Pointing Mortar has been developed to achieve the highest fire resistance rating in its field.

Brickspan® Fast Fix and Fast Fix Pointing Mortar will remain strong and flexible while having the ability to allow water vapour to pass through it due to its open pore technology.

This is demonstrated below by passing air directly through the product at low pressure.



The Six Levels of Independent Performance Testing



Reaction to Fire Performance: A2-Rated



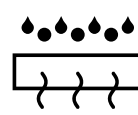
Open Pore Technology



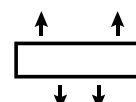
Colour Fading & UV Resistant



Whole Life Performance Exceeding 35 Years



Resistant Category 1



Continued Bond Strength Control



1. Reaction To Fire - A-Rated

Every type of building material has its own reaction to fire which is defined on the basis of tests carried out according to the British Standard Institution: EN13501-01, a specific classification system which goes from A (non-flammable product) to F (unclassified product). These reference parameters primarily take into consideration the combustibility level, fire propagation velocity and development of heat per unit of time.

Brickspan® fire resistant properties are designed to meet specific fire engineering criteria, which significantly reduce the risk of fire.

Tested by Exova International Warrington laboratory to a fire rating of A2. (www.exova.com)



2. Excellent Breathability

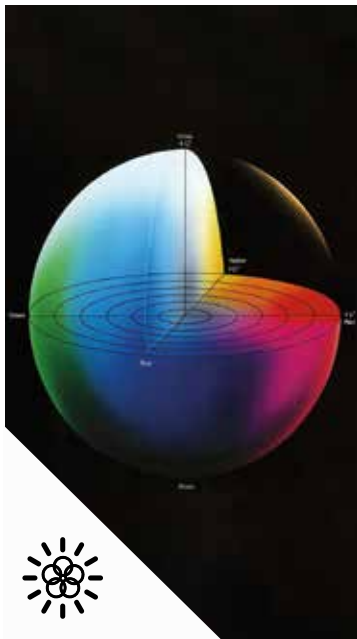
Vapour permeability (commonly referred to as breathability) is a material's ability to allow water vapour to pass through it. This is often confused with the concept of withstanding the ingress of bulk water. The difference is that bulk water is moisture in liquid form whereas water vapour is a gas. The amount of moisture that moves and the method of movement are also significantly different. A single drop of water consists of thousands of molecules.

In general, this concept can be compared to a train full of people who travel together. Just imagine the passengers trying to get up and off the train through the door - all at the same time. They won't fit, so no one gets on the train or off it. But just suppose the passengers spread out, and in an orderly fashion and one-by-one, they attempt to exit the train. Some of them would get out.

In just the same way, when thousands of molecules of water get behind architectural cladding, they can't fit through the small pores in the façade covering. When you have moisture vapour in your wall, one molecule can break away from the pack and is able to escape by diffusion. When a material allows these individual molecules to pass, it is called vapour permeability.

This is one of the major differences between Brickspan® and other acrylic, resin, cementitious and traditional cladding products.

Tested by Lucideon, an international, independent material testing and technology laboratory to ETAG 004:6.1.3.4 and to ETAG 034:2013. (www.lucideon.com)



3. Colour Fading and UV Resistant

The patented Brickspan® composition and manufacturing technology ensures that tone fading or colour loss is not apparent over time.

Testing these requirements is exceptionally specialised and carried out by means of Colourimeter readings which are taken using a laboratory colour spectrometer space system. This defines the colour of an object as a 3 dimensional co-ordinate within a colour sphere exposed over time to heat and UV radiation.

The L co-ordinate represents 'lightness' and runs from 100 (complete lightness) to 0 (complete darkness), where a is the red direction, -a is the green direction, +b is the yellow direction and -b is the blue direction. Lab readings taken are an average over a 2mm spot size in each case.

Following 1000hrs of intensive accelerated UV weathering using cycle 1 method 'A', no effects of Ultra Violet (UV) radiation or significant colour changes were detected either by eye or with the Laboratory Colourimeter.

Tested by Materials Technology Limited in accordance with BS EN ISO 16474- 3 Cycle 1 method "A". (www.drb-mattech.co.uk)



4. Lengthy Product Life and Whole Life Performance

Using a set of accelerated weathering tests simulating real European climatic conditions, a 6 square metre, Brickspan® Fast Fix façade was constructed and exposed to the sun's cycles of heat, rain and freeze-thaw, over a monitored period of 30 days in a Laboratory environment using an acclimatisation chamber.

The purpose of durability tests within European Technical Approval Guideline (ETAG) guidance is to determine that there are no technical or aesthetical defects of cracking, blistering, peeling or delaminating on the surface of the product during the buildings expected life span. These stringent tests provide **an expected life span of no less than 35 years.**

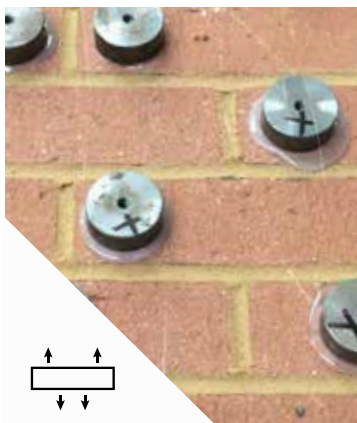
Tested at Lucideon, independent material testing and technology laboratory by complying with ETAG 004:6.1.3.2.1. (www.lucideon.com)



5. Resistant - Category 1

To ensure public safety, high-rise buildings require water-tightness, wind resistance and high impact capability which take account of their individual height and location. The Brickspan® Fast Fix has been successfully tested for Category 1 impact resistance and weather-tightness using controlled British Standards and classifications for Building Envelopes. Water-tightness, The Centre for Window and Cladding (CWCT)/BS EN 12154: 600 and Wind Resistance CWCT/BS EN 13116: ± 2400 (Pascal's serviceability dynamic) were both achieved along with High impact Category CWCT TN76: Class 1.

Tested at VINCI Technology Centre UK Ltd. (www.technology-centre.co.uk)



6. Excellent Bond Strength Control

Brickspan® has tested a range of compatible adhesives on various substrates and wall systems. Adhesive strength tests were performed according to the pass standards of ETAG-required guidelines and were based on direct pull-off strengths using a compressive test machine, while working in the opposite direction with a digital hanging scale attached.

These tests are carried out before, during and after accelerated thermal chamber weathering to provide total bond characteristics under ETAG: Pass standards for 004:6.1.4.1.1.

Tested at Lucideon, independent material testing and technology laboratory. (www.lucideon.com)

Off Site Manufacturing Solutions



One of the main contributors to construction inflation is labour cost.

Installing Brickspan® Fast Fix; any competent semi-skilled person can quickly be trained to install the system and installation is up to four times quicker than any other brick system.

Pre-webbed Brickets weigh in at less than 2kgs per Brickspan® sheet of 20 bricks.

Decisions by planners can act as a constraint by influencing the building's appearance to require the look of traditional brickwork.

Brickspan® offers a colour match solution.

Brickspan® factory assembled brickwork units achieve total consistency in overall style and appearance through the use of Brickspan® pre-fitted sheets.

Brickspan® modules can be pre-planned and manufactured.

Being much lighter and more flexible than traditional bricks, Brickspan® products are safer, easier and cheaper to transport from factory to site. For off site construction projects, Brickspan® is able to flex with the structure during transportation, reducing the risk of cracking.

Brickspan® is the UK's lightest manufactured flexible brick system.





Strong and flexible Brickspan® Fast Fix combines a high degree of fire resistance which does not include any cement or lime within the technology. This eliminates the risk of lime bloom, efflorescence or façade whitening of salts.

At an average weight of only 5kgs per m², this provides the perfect solution for on-site brick faced refurbishment for new or existing modular buildings.

Fully Guaranteed Against Manufacturing Defects

Here is our warranty that will protect you when using our product on your scheme:

Many guarantees and warranties offered to customers are complicated, full of legal jargon and 'get out clauses' which are designed to confuse people. Due to our confidence in the intensive testing regime, we're able to make ours as simple and straightforward as possible. We hope you find this different approach refreshing – brought to you exclusively by the team at Brickspan® Developments Limited.

- ◆ Brickspan® sheets are under warranty for a full ten years against the occurrence of manufacturing faults.
- ◆ The warranty is conditional upon complying with the Brickspan® instructions and recommendations for installation, care and maintenance.
- ◆ This warranty covers replacement of faulty parts only and does not cover incidental expenses. Failure to comply with the installation and finishing instructions will invalidate this warranty.
- ◆ We recommend that competent semi-skilled operatives are used when installing Brickspan® Fast Fix.
- ◆ Brickspan® Rest Assured Scheme is designed to offer you full on-site training, installation instructions and advice.

Our Planned Maintenance Program can also be downloaded from our website at www.brickspan.co.uk

An integral part of the Brickspan® Fast Fix system is the specially formulated premixed Thixotropic Mineral Pointing Mortar. We do not include any cement or lime within our technology, eliminating the risk of lime bloom, efflorescence or façade whitening of salts.



Our warranty means that:

- All Brickspan® sheets will be free of manufacturing defects when they arrive to you on site. No manufacturing defect will appear during the ten-year period of this guarantee, subject to regular maintenance and cleaning.
- The pointing mortar may need toughing up after 10 years if disturbed.
- Corners and special details are guaranteed for a ten-year period against manufacturing faults subject to regular maintenance and care in use.
- Brickspan® aim for a consistent colour approach to all our products of finished brick and mortar, however due to the use of 95% natural minerals the consistency may naturally vary from batches produced.

An Unrivalled Matching Service

As Endless in Colour and
Texture as your Imagination



We are able to supply RAL colours or a colour matching service for both bricks and mortar, providing an unrestricted creativity for architects and builders.

Fast Fix Wrap Application



Step 1

Set out the coursing of the Brickspan® Fast Fix using the pre-set corners.



Step 2

Work progressively across the wall applying the 5mm ribbons of adhesive.



Step 3

Adjust where required and interlock Brickspan® Fast Fix.



Step 4

Insert Fast Fix pointing mortar in to brick joints and tool joints as required.

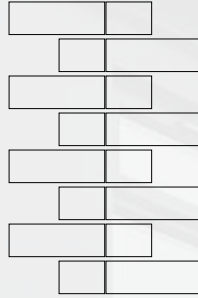


Dimensions & Packaging

Brickspan® Fast Fix Corner Wrap:

Contents:

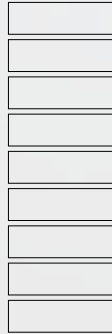
Coverage: 8 sheets (4.8lm)
 Brick Dimensions: 215mm x 65mm
 Joint Dimensions: 10mm
 Sheet Length: 590mm
 Bond Type: Stretcher



Brickspan® Fast Fix Soldier Wrap:

Contents:

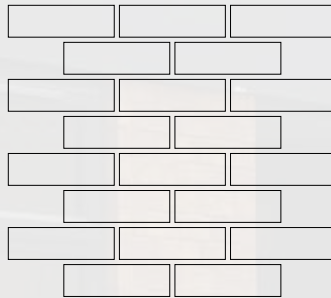
Coverage: 9 sheets (6.03lm)
 Brick Dimensions: 215mm x 65mm
 Joint Dimensions: 10mm
 Sheet Length: 665mm
 Bond Type: Soldier



Brickspan® Fast Fix Wall Wrap:

Contents:

Coverage: 9 sheets (3m²)
 Brick Dimensions: 215mm x 65mm
 Joint Dimensions: 10mm
 Sheet Dimensions: 665mm x 590mm
 Bond Type: Stretcher



Brickspan® Fast Fix Pointing Mortar:

Contents:

Per m²
 Bucket Weight: 15kg Tub
 Coverage: Approx 7-8m²
 Brick Size: 215mm x 65mm
 Joint Dimensions: 10mm

