

**Flowcrete**  
for the world at your feet



# CAR PARK DECK WATERPROOFING & COATING SOLUTIONS

# A GUIDE TO CAR PARK DECK WATERPROOFING & COATING SOLUTIONS



## OUR PROMISE

By working together across the UK and Ireland, Flowcrete combines an unrivalled range of coatings and waterproofing solutions.

Regardless of any challenges being faced onsite, we have the versatility and breadth of products and knowledge required to provide the ideal answer.

For decades, Flowcrete's Deckshield range has supplied Europe's largest, most complex multi-storey car parks with high performance deck coating and waterproofing solutions.

This experience makes us uniquely well placed to advise on how to create large-scale, multistorey car parks that will provide users with a safe, clean and attractive facility and that will provide operators with a long-lasting, reliable and low maintenance structure.

## Support Offered

Our commitment to customer support is illustrated by the many services that come part and parcel when working with us, which include:

-  Consultation
-  Site Survey
-  Specification
-  Technical Support
-  Installation
-  Warranty & Aftercare
-  RIBA approved CPD

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**Deckshield car park deck waterproofing systems have been designed to meet all the requirements for new build and refurbishment of car park structures.**

Multi-storey car parks are unique structures which are subject to various challenges such as regular wear from vehicular traffic and pedestrian foot traffic, chloride and carbonation chemical attack, weathering and UV exposure.

Many multi-storey car parks have large spans with minimal support, and it is therefore crucial to ensure you have the correct level of waterproofing protection to prevent water ingress and potential corrosion of the structure. Thanks to the tried-and-tested solutions in our specialist car park decking range, you can rest assured that your facility is protected from all of the above challenges for the long term.





Regardless of development, each project can have unique requirements. Flowcrete's Deckshield range has an extensive track record spanning decades working on some of Europe's largest, most complex multi-storey car parks.

# NEW BUILD

Whether you are looking to build a new multi-storey car park or underground car park, with Deckshield, we have combined multiple waterproofing, crack bridging MMA and Polyurethane deck coatings to deliver the perfect solution for any car park, anywhere. Our range of systems can be used across exposed decks, internal decks, ramps, walkways and loading bays.

## New Build Solutions

Car parks are subject to unique conditions such as structural movement and water ingress which demand proven deck coating systems. Non-protection of car parks will inevitably lead to long term maintenance

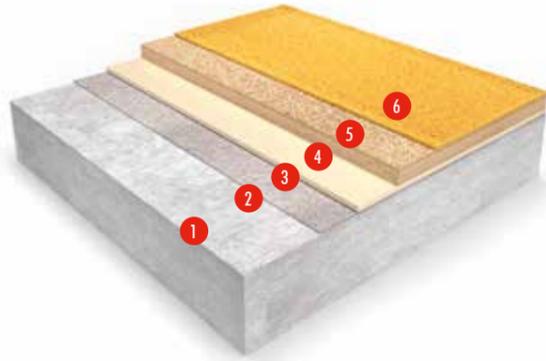
plans, increased costs and in extreme cases, deck failure. Deckshield systems are proven to meet the most stringent of criteria for new build car parks, combining both modern design and safety requirements.



# SYSTEM BUILD UPS

## Deckshield Rapide ED1/ED2

EN1504-2 compliant | Dynamic crack bridging class B 3.2

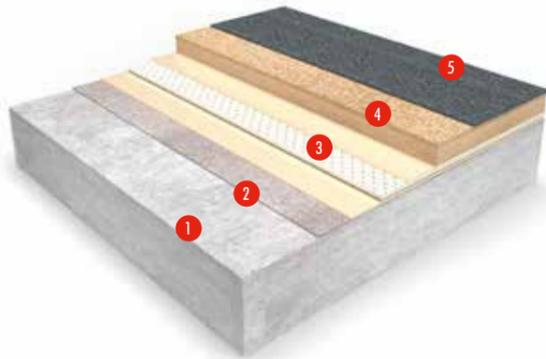


A flexible, non-slip, rapid cure MMA top deck waterproofing system that offers excellent elastomeric crack bridging properties.

- 1 Prepared Substrate
- 2 Deckshield Rapide Standard Primer or Deckshield Rapide Damp Primer + scattered Natural Quartz
- 3 Deckshield Fleece Reinforcement Banding
- 4 Deckshield Rapide Membrane
- 5 Deckshield Rapide Flexible binder with SNL or LDE Filler + Fully blinded Natural Quartz
- 6 Deckshield Rapide Topcoat

## Deckshield Rapide EDF

EN1504-2 / OS-14 compliant | Dynamic crack bridging class B 4.2

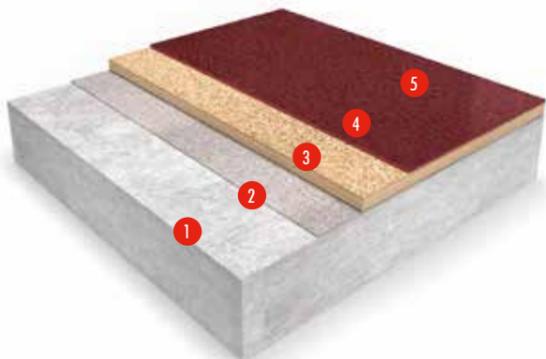


A fully fleece reinforced, rapid cure MMA top deck waterproofing system that offers superior elastomeric crack bridging properties.

- 1 Prepared Substrate
- 2 Deckshield Rapide Standard Primer or Deckshield Rapide Damp Primer + scattered Natural Quartz
- 3 Deckshield Rapide Membrane with Full Fleece Reinforcement
- 4 Deckshield Rapide Flexible Binder with HD Filler + fully blinded Natural Quartz
- 5 Deckshield Rapide Topcoat

## Deckshield ID

EN1504-2 / OS-8 compliant



A flexible and durable polyurethane for use on intermediate car park decks. Ensuring safety underfoot with enhanced traction.

- 1 Prepared Substrate
- 2 Hydraseal 1 or 2 coats or Aqualock 1 coat
- 3 Deckshield SF + Quartz filler, fully blinded Natural Quartz
- 4 Deckshield Finish
- 5 Deckshield UV Topcoat (optional)

FIND OUT MORE



- UV Light & Weather Resistant:** Colourfast, non-fading finish that withstands extreme weather conditions.
- Rapid Cure:** Full traffic and chemical cure achieved within 3 hours of application.
- Excellent Crack Bridging:** Safeguards against the movement and cracking of new-build parking structures.
- Slip Resistant:** Positively textured anti-slip surface minimises slip and skid risks.

- Fully Reinforced:** Features a fully fleece reinforced lining to further enhance deck performance.
- Rapid Cure:** Full traffic and chemical cure achieved within 3 hours of application.
- Superior Crack Bridging:** Safeguards against the movement and cracking of new-build parking structures.
- Above Occupied Premises:** Can be installed in high-risk areas, such as decks above occupied premises.

- Slip Resistant:** Positively textured anti-slip surface minimises slip and skid risks.
- Chemical Resistant:** Protects against diesel, fuel, antifreeze, hydraulic fluid, chlorides & battery acid.
- Temperature Resistant:** Softens over 70°C and hardens on cooling.
- Noise Reduction:** Enhanced traction underfoot minimises unpleasant noise from tyre squeal.

More systems available, contact our technical helpdesk or enquire via our website. The installation should be carried out by a Deckshield approved contractor with a documented quality assurance scheme.



# REFURBISHMENT

Rather than replacing your original asphalt deck risking exposing your building to water ingress, why not think about refurbishment to save time and labour? Key qualities of our refurbishment systems are speed of cure and low temperature cure enabling fast installation.

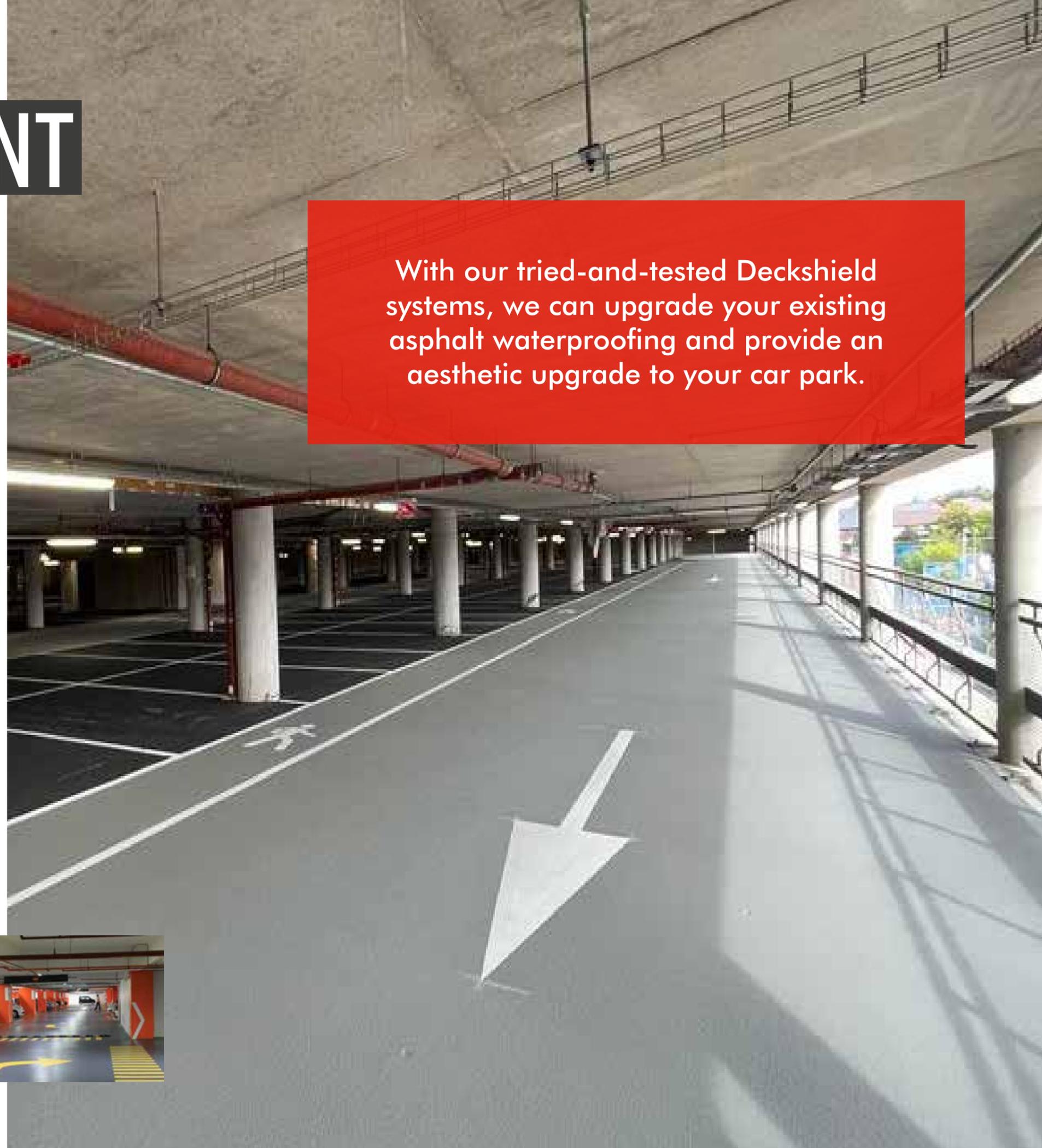
We understand that every deck is different, that is why our water proofing experts are on hand to provide recommendations best suited to extend the life of your car park. Our systems are also perfect for renovating tired decks, ramps and turning circles.

## Refurbishment solutions

Choosing Polyurethane modified methyl methacrylate (PUMA) based coatings is a significant time and labour saver for a refurbishment project, as it can be applied on top of existing asphalt.

Working alongside specialist contractors, we will undertake site surveys and assessments to ensure we meet individual client needs of each refurbishment project.

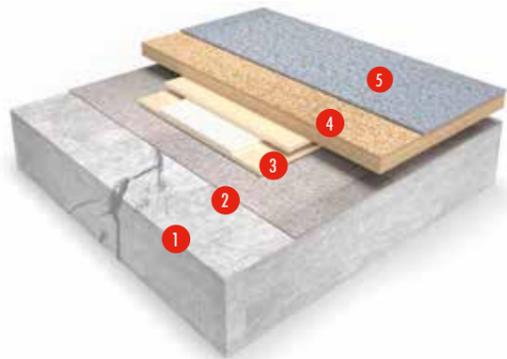
With our tried-and-tested Deckshield systems, we can upgrade your existing asphalt waterproofing and provide an aesthetic upgrade to your car park.



# SYSTEM BUILD UPS

## Deckshield Rapide EDP

EN1504-2 compliant

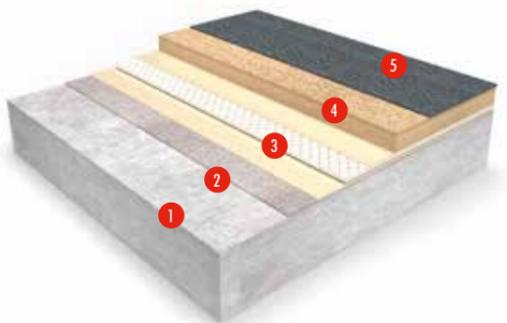


A partially fleece reinforced, deck systems optimally engineered for the refurbishment of existing decks.

- 1 Prepared Substrate
- 2 Deckshield Standard Primer
- 3 Deckshiled Rapide Membrane with Fleece Banding
- 4 Deckshield Rapide Flexible Binder with SNL Filler + fully blinded Natural Quartz
- 5 Deckshield Rapide Topcoat

## Deckshield Rapide EDF

EN1504-2 / OS-14 compliant | Dynamic crack bridging class B 4.2

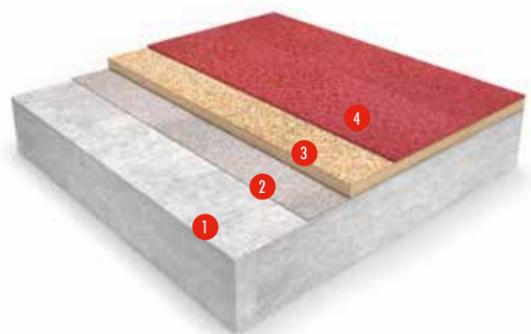


A fully fleece reinforced, rapid cure MMA top deck waterproofing system that offers superior elastomeric crack bridging properties.

- 1 Prepared Substrate
- 2 Deckshield Rapide Standard Primer or Deckshield Rapide Damp Primer + scattered Natural Quartz
- 3 Deckshield Rapide Membrane with Fleece
- 4 Deckshield Rapide Flexible Binder with HD Filler + scattered Natural Quartz
- 5 Deckshield Rapide Topcoat

## Deckshield Rapide ID

EN1504-2 / OS-8 compliant



A fast cure methyl methacrylate deck coating system for use on intermediate car park decks.

- 1 Prepared Substrate
- 2 Deckshield Rapide Standard Primer or Deckshield Rapide Damp Primer + scattered Natural Quartz
- 3 Deckshield Rapide Flexible Binder with SNL or LDE Filler + fully blinded Natural Quartz
- 4 Deckshield Rapide Topcoat

FIND OUT MORE



- Partially Reinforced:** Features a partial fleece reinforced lining to further enhance deck performance.
- Rapid Cure:** Full traffic and chemical cure achieved within 3 hours of application.
- Superior Crack Bridging:** Safeguards against the movement and cracking of new-build parking structures.
- UV Light & Weather Resistant:** Colourfast, non-fading finish that withstands extreme weather conditions.

- Fully Reinforced:** Features a fully fleece reinforced lining to further enhance deck performance.
- Rapid Cure:** Full traffic and chemical cure achieved within 3 hours of application.
- Superior Crack Bridging:** Safeguards against the movement and cracking of new-build parking structures.
- Above Occupied Premises:** Can be installed in high-risk areas, such as decks above occupied premises.

- Slip Resistant:** Positively textured anti-slip surface minimises slip and skid risks.
- Fast Track Installation:** Full traffic and chemical cure within 3 hours.
- UV Light & Weather Resistant:** Colourfast, non-fading finish that withstands extreme weather conditions.
- Noise Reduction:** Enhanced traction underfoot minimises unpleasant noise from tyre squeal.



More systems available, contact our technical helpdesk or enquire via our website. The installation should be carried out by a Deckshield approved contractor with a documented quality assurance scheme.

# WATERPROOF MOVEMENT JOINTS

Movement joints are required to bridge the constructed movement gaps within the structure to bring the decks together in a way that safely absorbs any building movement by temperature-induced expansion or contraction, vibration, traffic flows, dynamic loading, ground settlement or seismic activity.

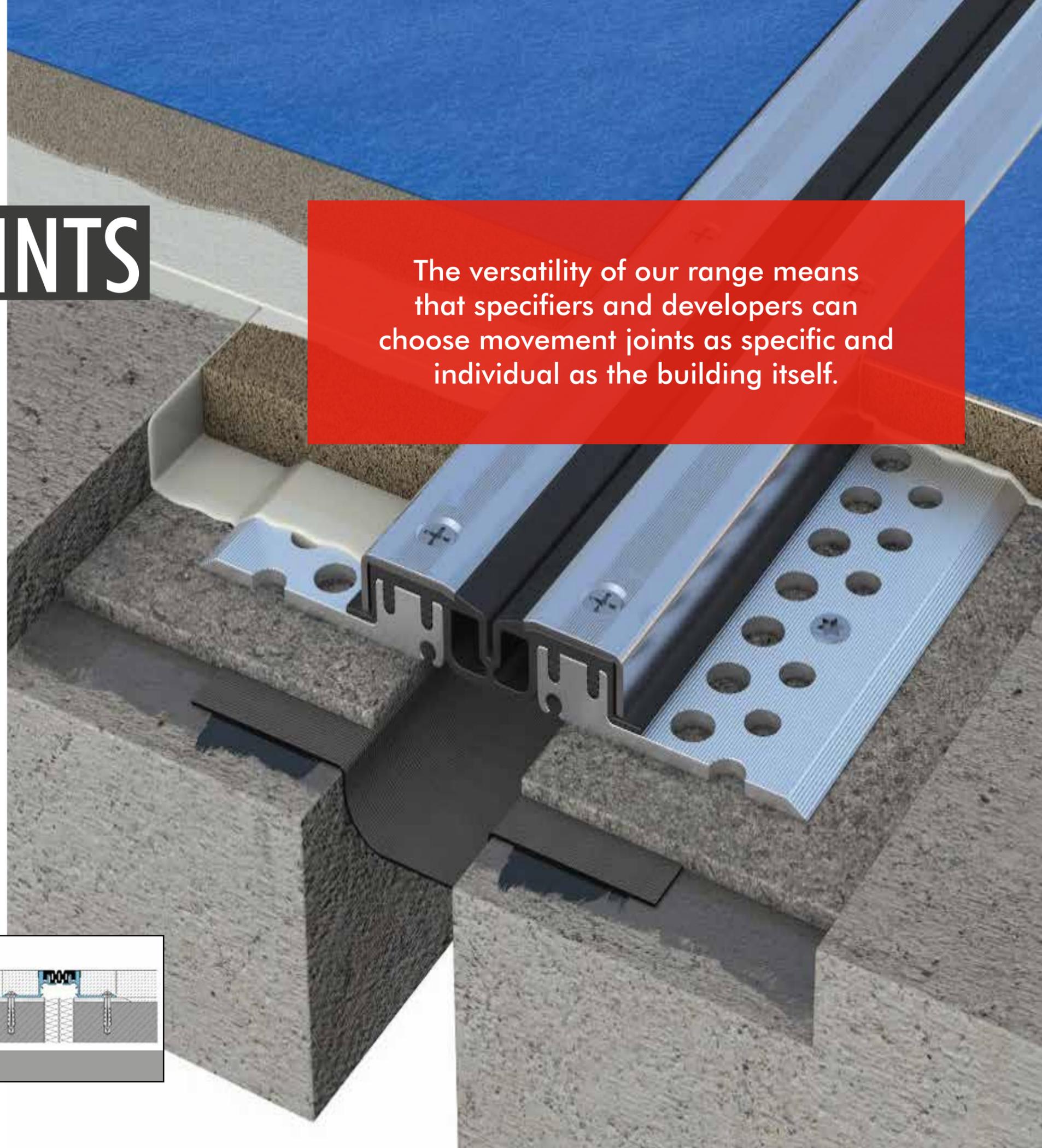
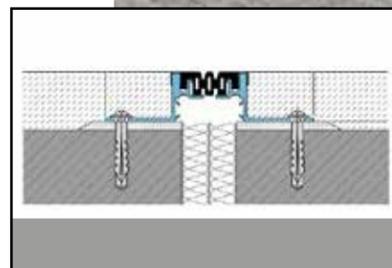
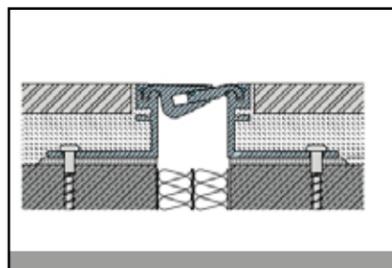
Every Deckshield system on any deck can be used alongside our movement joints in order to build the necessary flexibility and protection from the structural movement into the floor and wall itself.

## Movement Joints

Regardless of forces, demands and complexities of a new-build or refurbished multi-storey car park, you can make sure that the structures' movement joints will work with the surrounding materials to

keep the building safe and secure. The versatility of our range means that specifiers and developers can choose movement joints as specific and individual as the building itself.

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## Standard Colours\*



Traffic Grey B  
RAL 7043



Dusty Grey  
RAL 7037



Grass Green  
RAL 6010



Traffic Blue  
RAL 5017



Traffic Purple  
RAL 4006



Tomato Red  
RAL 3013



Traffic Orange  
RAL 2009

\*The applied colours may differ from the examples shown and are not indicative of the full colour range. For a full colour chart and samples, contact our flooring experts.



# TECHNICAL & SPECIFICATION SUPPORT

Within the car park environment, correct specification of waterproofing and surfacing materials is critical to delivering a long-term, structurally protected and safe facility for car park operators and vehicle owners.

Flowcrete is here to help you make informed product and system choices on your upcoming new build or refurbishment projects.

We offer a range of technical and specification services to support your next project including:

- On-site support, site visits and inspections
- Testing, certifications and warranties
- Detailed drawings
- NBS specifications
- Building regulatory requirements
- RIBA Approved CPD seminars

## Find our Products on NBS Source

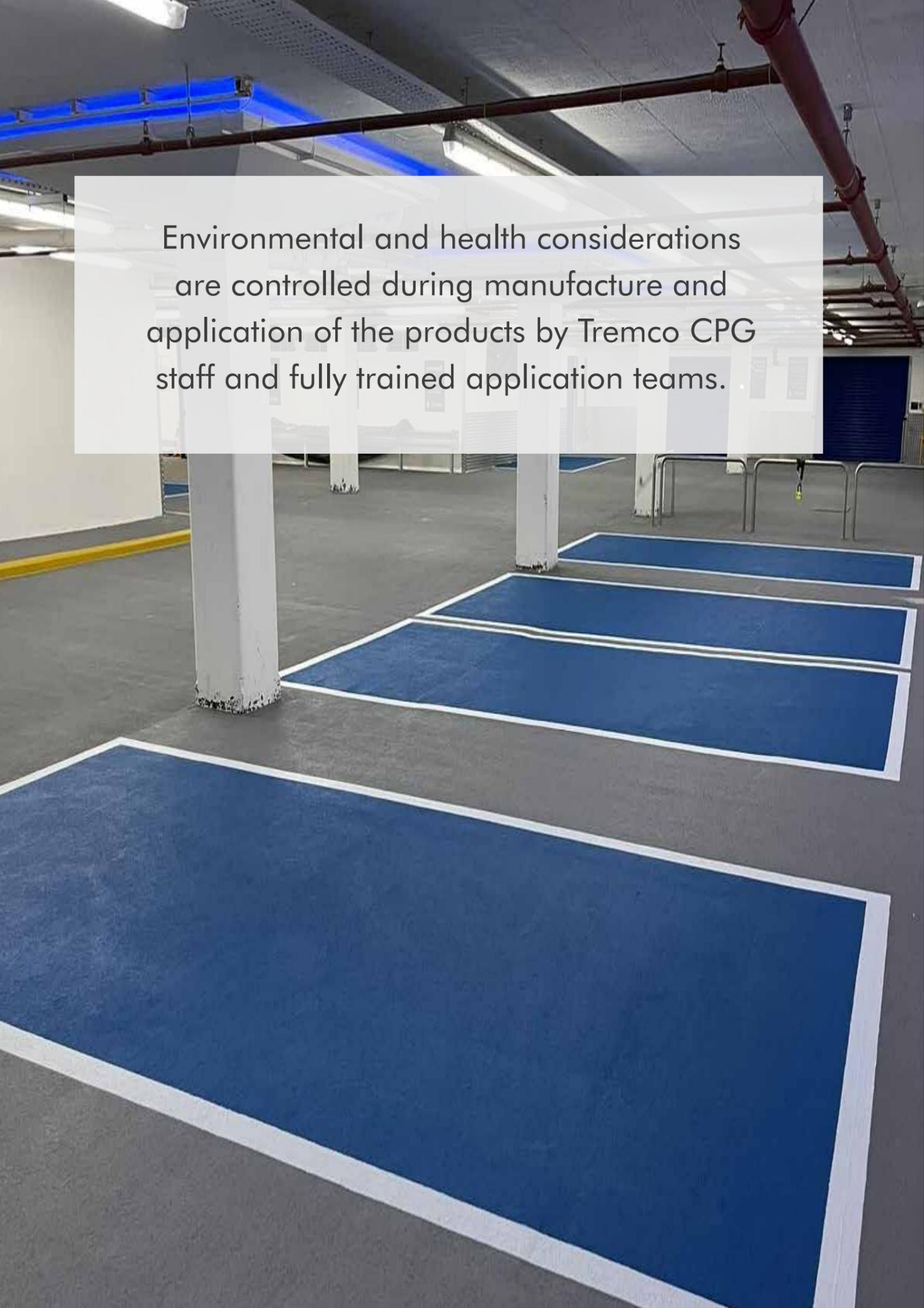
Our full range of Deckshield waterproofing systems are available on NBS Source providing fast and easy inclusion into the specification. Sharing a wealth of experience working with architects and specifiers, our team will ensure the best solution is found for your flooring requirements.

## Certification & Testing

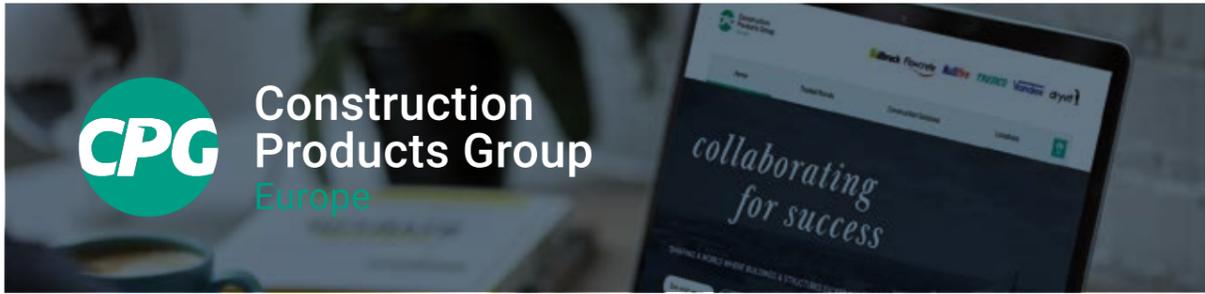
All Deckshield systems have been rigorously tested to meet all the requirements of BS EN 1504-2:2005. Products and systems for the repair and protection of concrete structures. Included in these tests are crack bridging BS EN 1062-7:2004, meeting the highest possible standards of crack bridging. The Deckshield systems have also been tested for reaction to fire in accordance with BS EN 13501-1:2018. In response to stringent fire proofing requirements, the Deckshield Rapide ED1 systems is certified to Broof(t4).



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Environmental and health considerations are controlled during manufacture and application of the products by Tremco CPG staff and fully trained application teams.



CPG Europe manufactures high performance building materials in order to solve the complex challenges faced by today's construction industry. With over one thousand four hundred employees across Europe, we are committed to being by your side to shape a world where buildings and structures save energy, last longer and exceed sustainability benchmarks

**Delivering World-Class Construction Product Solutions.**

The product brands housed within CPG Europe cover a wide array of different construction needs and provide a wealth of complex services, support and systems that are rarely found together under one roof.



Window Insulation, Façade Construction, Exterior Insulation & EIFS, Structural & Inplant Glazing, Insulated Concrete Forms (ICFs)



Intumescent Coatings, Fire Stopping



Seamless Resin Flooring, Subfloor Preparation, Car Parking Structures



Potable & Waste Water Industry, Balconies, Terraces, Basements & Foundations



Liquid Applied Systems, Felt Systems, Vegetated Roofing

**Europe's leading construction products brands...**





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Products Group**  
Europe

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