

**Flowcrete**  
for the world at your feet



## CAR PARK DECK WATERPROOFING & COATING SOLUTIONS

# A GUIDE TO CAR PARK DECK WATERPROOFING & COATING SOLUTIONS



## OUR PROMISE

Flowcrete combines an unrivalled range of car park deck waterproofing and coating solutions.

Regardless of any challenges being faced onsite, we have the versatility and breadth of products and knowledge required to provide a fit-for-purpose solution.

For decades, Flowcrete's Deckshield range has supplied the world'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 suitable solutions for 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
-  AIA 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.



# NEW BUILD

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

Whether you are looking to build a new multi-storey car park, single level or underground car park, with Deckshield, we have combined multiple waterproofing, crack bridging MMA Polyurethane and epoxy 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

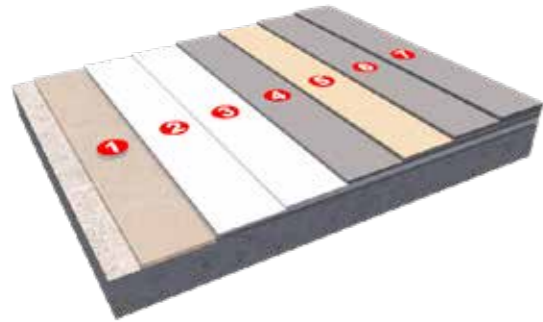
plans, increased costs and in extreme cases, deck failure. Deckshield systems are proven to meet the most stringent of criteria for new build car parks, combining both modern design and safety requirements.



# SYSTEM BUILD UPS

## Deckshield Rapide ED

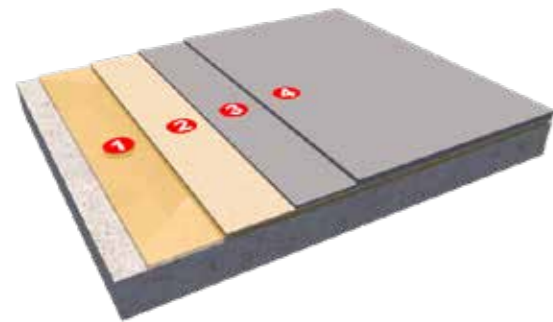
Meets AS4654.1:2012 Waterproofing Membrane Systems for Exterior Use



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

- |   |                                |
|---|--------------------------------|
| 1 Flowfast 101 Standard Primer                    | 5 Aggregate Layer              |
| 2 Deckshield Rapide Membrane                      | 6 Flowfast 319 Flexible Sealer |
| 3 Deckshield Rapide Membrane                      | 7 Flowfast 319 Flexible Sealer |
| 4 Flowfast 215 Flexible Binder/ Silica Flour 100G |                                |

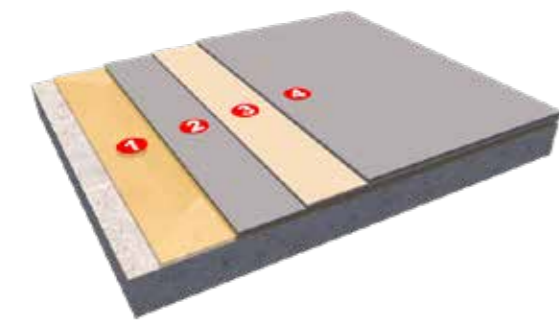
## Deckshield ID



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

- |                   |                     |
|-------------------|---------------------|
| 1 Flowprime AU    | 3 Flowcoat OP       |
| 2 Aggregate Layer | 4 Deckshield UV/UWV |

## Flowcoat OP



High performance, low VOC coloured epoxy coating system designed to create a textured surface in industrial facilities.

- |  |                            |
|--|----------------------------|
| 1 Flowprime AU *If Required For Porous Surfaces Only | 3 Slip Resistant Aggregate |
| 2 Flowcoat OP  | 4 Flowcoat OP              |

FIND OUT MORE



- Rapid Curing:** Fast track application, reducing unwanted downtime on critical projects.
- Low VOC:** Compliant with Green Star Design & As Built V1.2-13.1.1B, Green Star Interiors V1.2-12.1.1B
- Waterproof:** Complies with AS 4654.1:2012 Waterproofing Membrane standard.
- Resistant:** Provides fire, slip, abrasion and chemical and UV resistance.

- Slip Resistant:** Textured aggregates provide a non slip surface underfoot.
- Durable:** Hard wearing, durable and abrasion resistant protective coating.
- Low Maintenance:** Seamless, hygienic finish, which requires low maintenance.
- Reduces Noise:** Minimises unwanted noise from tyre squeal.

- Slip Resistant:** Textured aggregates provide a non slip surface underfoot.
- Low VOC:** Compliant with Green Star Design & As Built V1.2-13.1.1B, Green Star Interiors V1.2-12.1.1B
- Low Maintenance:** Seamless, hygienic finish, which requires low maintenance.
- Resistant:** Hard wearing, durable, chemical and abrasion resistant.



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

# REFURBISHMENT

Rather than replacing your original 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 (MMA) 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.

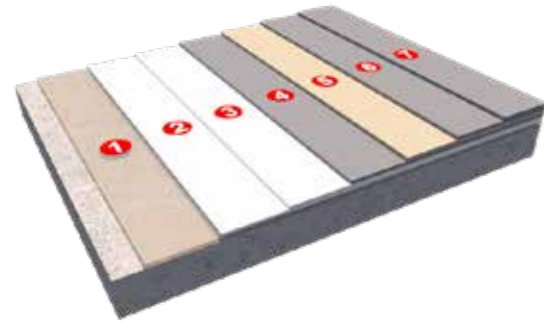
With our tried-and-tested Deckshield systems, we can upgrade your existing waterproofing and provide an aesthetic upgrade to your car park.



# SYSTEM BUILD UPS

## Deckshield Rapide ED

Meets AS4654.1:2012 Waterproofing Membrane Systems for Exterior Use







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

- |   |                                |
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FIND OUT MORE



-  **Rapid Curing:**  
Fast track application, reducing unwanted downtime on critical projects.
-  **Low VOC:**  
Compliant with Green Star Design & As Built V1.2-13.1.1B, Green Star Interiors V1.2-12.1.1B
-  **Waterproof:**  
Complies with AS 4654.1:2012 Waterproofing Membrane standard.
-  **Resistant:**  
Provides fire, slip, abrasion and chemical and UV resistance.

## Deckshield Rapide ID



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

- |                                |                                |
|--------------------------------|--------------------------------|
| 1 Flowfast 101 Standard Primer | 4 Flowfast 319 Flexible Sealer |
| 2 Flowfast 215 Flexible Binder | 5 Flowfast 319 Flexible Sealer |
| 3 Aggregate Layer              |                                |

-  **Rapid Curing:**  
Fast track application, dramatically reducing program time.
-  **Low VOC:**  
Compliant with Green Star Design & As Built V1.2-13.1.1B, Green Star Interiors V1.2-12.1.1B
-  **Low Maintenance:**  
Can be overcoated without mechanical preparation.
-  **Resistant:**  
Provides fire, slip, abrasion, UV and chemical resistance.



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

# HELIPAD SOLUTIONS

Helipad coating solutions are essential for ensuring the longevity and safety of helipad structures. Flowcrete's resin-based coatings are highly durable, capable of withstanding the heavy loads and impacts associated with helicopter landings and take-offs. These coatings resist wear and tear, maintaining a functional surface under various weather conditions, including rain, snow, and UV radiation. Additionally, they provide excellent chemical resistance to aviation fuel, hydraulic fluids, and de-icing agents, preventing surface damage from spills and leaks. The anti-slip properties of many resin-based coatings enhance safety for personnel and equipment, particularly in wet or icy conditions.

## Helipad Coating Solutions

Resin-coated helipad surfaces are easier to clean and maintain compared to uncoated surfaces, as their smooth, sealed finish prevents the buildup of dirt, debris, and contaminants. This ease of maintenance, coupled with the protection resin coatings offer to the underlying concrete or asphalt, significantly extends the lifespan of helipads and reduces the need for frequent

repairs or resurfacing. Customizable with colours and markings for improved visibility, resin coatings enhance safety during landing and take-off, especially in low-light conditions. Despite the initial application cost, the long-term savings from reduced maintenance and repairs make resin-based coatings a cost-effective solution for helipad upkeep.

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# 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\*



Terracotta



Serpentine



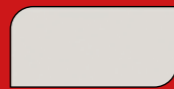
Bluebell



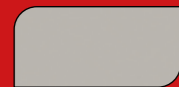
Light Grey Blue



Straw



Pastel Grey



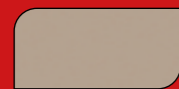
Light Grey



Bridge Grey



Dark Grey



Mushroom

\*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
- Building regulatory requirements



REQUEST A SPECIFICATION

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