



## CAR PARK REFURBISHMENT

- ▶ A wide range of protective repair solutions including traffic deck systems, concrete repair materials, and crack injection resins as well as architectural wall coatings and waterproofing products.

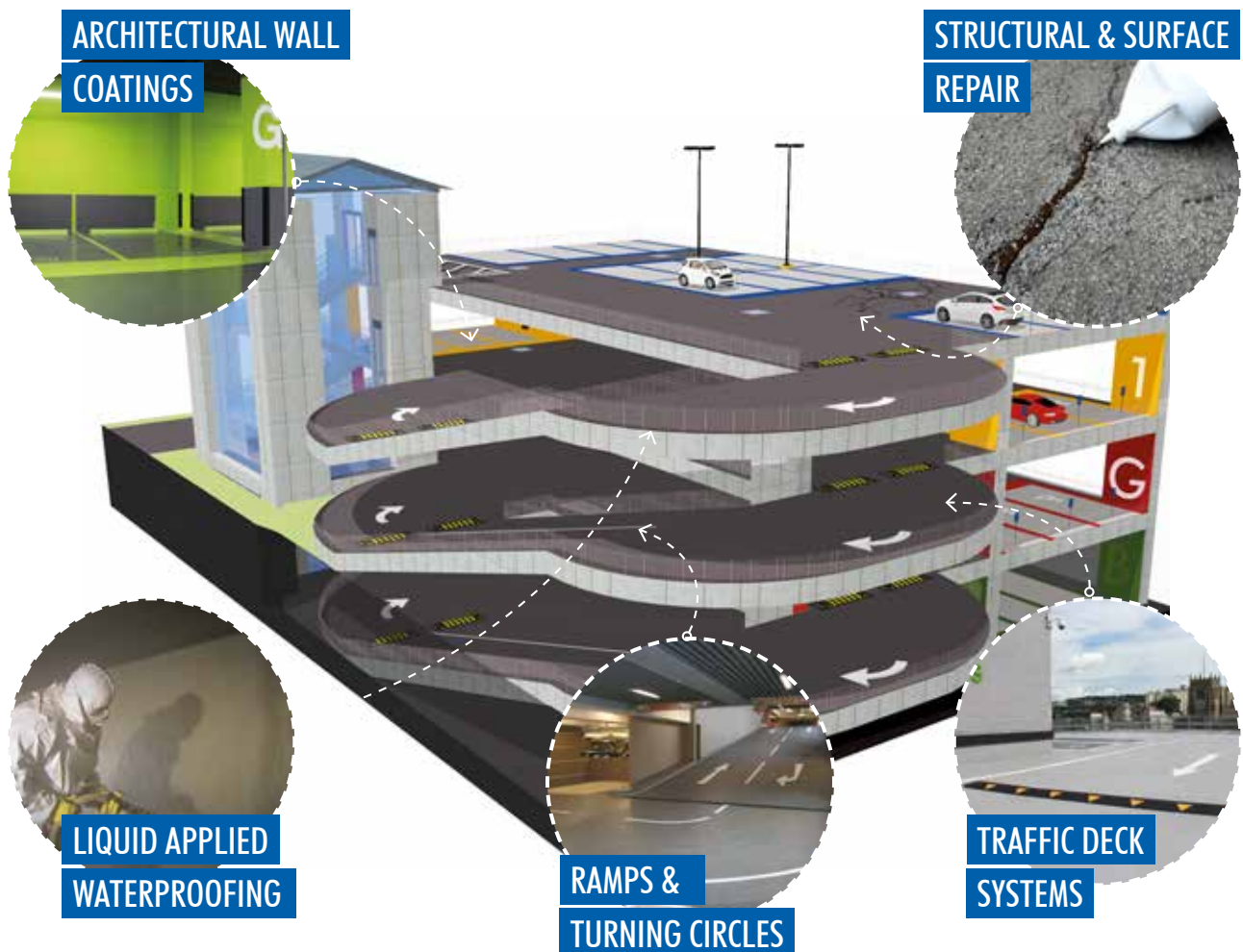
# Protect, Repair & Transform Car Parking Facilities

Today, far from the grey utilitarian structures of the past, multi storey car parks are increasingly being recognised as pillars of the urban landscape offering vehicle owners a safe and welcoming environment to park as well as boasting a well-designed layout and high-end build quality.

From basement to roof-top decks, larger and brighter parking bays provide an increased sense of safety and security for vehicle owners alongside clear navigational markings and preferential parking areas for hybrid or electric vehicles.

Flowcrete Asia offers specification professionals working on the design of new-build or refurbishment car park structures a range of deck coating solutions, repair materials and wall coating solutions to choose from. Such car park renovation projects can benefit from utilising Flowcrete Asia's extensive range of repair products to transform old parking areas direct from one supplier, with one point of contact and under one manufacturer's warranty.

## A Complete Repair & Protection Package





# Deckshield ID



A Green Label certified, low VOC, solvent free, flexible polyurethane car park deck coating system available in a range of colours.

Deckshield ID provides a colourful watertight, hard wearing surface for intermediate decks of multi-storey, basement and other trafficable suspended floors.



### Environmentally Friendly:

Green Label Certified and low in Volatile Organic Compounds (VOCs).



### Attractive:

Brightens up dull, dark and musty car park environments.



### Resistant:

Excellent resistance to chemicals exposure, fire and slip / skid risks.

## Chemical Resistance

Petrol	✓	Hydraulic Fluid	✓
Diesel	✓	Chlorides	✓
Antifreeze	✓	Battery Acid	✓

## Technical Profile

### TEMPERATURE RESISTANCE

Softens over 70°C, hardens on cooling

### WATER PERMEABILITY

Karsten Test Nil (Impermeable)

### BOND STRENGTH

Greater than cohesive strength of 25 N/mm<sup>2</sup> concrete > 1.5 MPa\*

### FIRE RESISTANCE

EN 13501-1 B<sub>fl</sub> - s1

### SLIP RESISTANCE

BS 7976-2 Dry >40, Wet dependant on specification

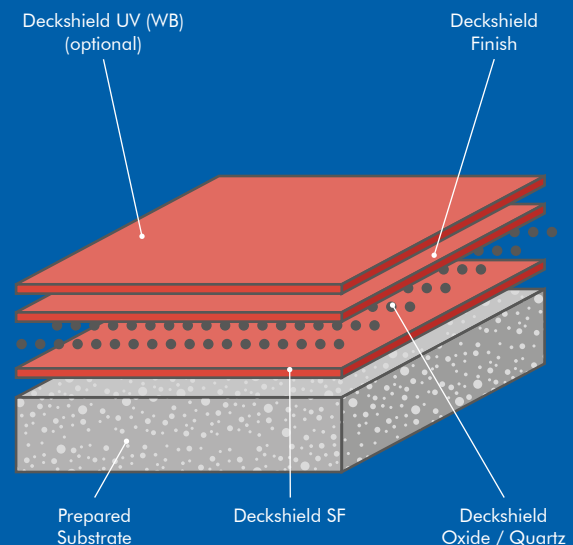
### ABRASION RESISTANCE

ASTM D4060 (1kg load using CS17 wheels) 0.1g loss per 1000 cycles

### UV LIGHT RESISTANCE

Excellent (include Deckshield UV WB topcoat)

SPEED OF CURE*	10 °C	20 °C	30 °C
Light Traffic	30 hrs	18 hrs	12 hrs
Full Traffic	48 hrs	36 hrs	24 hrs
Full Chemical Cure	12 days	7 days	6 days



\*Cure times at temperatures between 0-30 °C can be achieved by altering the quantity of catalyst used. For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.

## Car Park Refurbishment

Whether your parking facility is precast, cast-in-place or post-tensioned construction, Flowcrete offers complete solutions for concrete repair and protection. As unique as your repair or project demand may be, our systems will protect your investment from the expensive and damaging effects caused by:

- Water leakage through cracks and joints
- Chloride ingress
- Pollution
- Freeze thaw cycling
- Wearing from repetitive traffic patterns
- Typical mechanical movement that causes spalling, reinforcement corrosion and other distress

New construction and repair applications include traffic deck coatings, penetrants and overlays, stairwell repair and coatings, joint sealants, surface repair and corrosion protection in commercial, retail, institutional and residential parking facilities.



## Traffic Coating Systems

### Deckshield ID

A low VOC, solvent free, flexible polyurethane car park traffic coating designed for the multi-storey car park projects. Deckshield ID provides a colourful watertight, hard wearing surface for intermediate decks of multi-storey, basement and other trafficable suspended floors.

### Deckshield LBD (Lowest Basement Deck)

Deckshield LBD is a polyurethane car park coating system that incorporates a technically advanced polyurethane based temporary moisture barrier. The use of Deckshield LBD ensures the controlled dissipation of moisture vapour which is suitable at the lowest basement car park levels.

### Deckshield ID Rapide

Deckshield ID Rapide is an MMA car park deck coating system providing a colourful watertight, hard wearing surface for intermediate decks of multi-storey, basement and other trafficable suspended floors. Deckshield ID Rapide has been developed to enable very fast track applications, therefore dramatically reducing program time.

### Deckshield ED Rapide

Deckshield ED Rapide is an MMA car park deck coating system providing a colourful watertight, hard wearing surface for exposed decks. Deckshield ED Rapide has been developed to enable very fast track applications, therefore dramatically reducing program time.

### Deckshield IDSD

Deckshield IDSD Special Duty is a Green Label certified, low VOC, solvent free, flexible polyurethane car park deck coating system providing a colourful watertight, hard wearing surface for car park ramps and other areas where high vehicular traffic is expected.

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## Epoxy Coatings

### Flowcoat SF41 (3 mm Composite)

Flowcoat SF41 is a solvent free, chemical resistant, high-build epoxy resin coating system. Different grades of slip resistance may be achieved by inclusion of graded aggregate between coats.

## Surface Repair

### Versaspeed

Versaspeed is a versatile, single-component, rapid-setting repair mortar for horizontal, and form and pour repair projects. Versaspeed is a low shrinkage, high early strength material. Repaired areas may be open to standard tire traffic after 2 hours, and a traffic coating may be applied after 4 hours.

### Flowtex F1 Mortar

Flowtex F1 Mortar is a three component epoxy mortar/screed that can be used to repair damaged floors, joint arises or as a thin layer topping underlayment for Flowcrete epoxy resin finishes.

### Flowscreed Mortar

A single component, quick drying, cement based screed used to repair floors. Flowscreed Mortar can be laid at thicknesses up to 40mm, with a minimum of 20mm when laid by hand. Used for fast track refurbishment projects prior to the installation of a Flowcrete flooring system.

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## Waterproofing

### Eucoflex PU 100

A high build, water based, liquid applied PU elastomeric waterproofing membrane that has excellent cold flexibility, elongation and recovery properties. Eucoflex PU 100 can be used to refurbish old waterproofing systems including torch-on waterproofing membranes.

### Eucoproof 3000 TA & 4000 TA

Torch applied bituminous waterproofing membranes that are manufactured from mixture of bitumen and selected APP (Atactic Poly Propylene) polymers blended together to obtain excellent heat & UV resistance and waterproofing properties. Available in thicknesses of 3mm and 4mm.

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## Internal Wall

### Flowseal EPW Wall

A pigmented, water-based epoxy wall sealer that brightens dull concrete surfaces. Flowseal EPW Wall provides a solvent free protective coating for the concrete that acts as a barrier to the ingress of chlorides and carbon dioxide.

## External Wall Sealer

### Euco-Guard 100

A siloxane-based water and chloride repellent for concrete & masonry structures. Euco-Guard 100 reacts chemically with the concrete to provide a highly effective chloride screen and water barrier. Can be used on both new and old concrete surfaces.

### Weather-Guard

A siloxane penetrating water repellent sealer designed specifically for the treatment of masonry materials and concrete surfaces. Weather-Guard protects concrete and masonry surfaces from the effects of exterior exposure and weathering.

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## Sealants & Joint Fillers

### Eucolastic 1NS

A single-component, polyurethane hybrid sealant. Eucolastic 1NS is an extremely durable sealant for dynamic joints, offering persistent adhesion once fully cured and provides unequalled performance against stand-alone polyurethane sealants.

### Eucolastic 1SL

A single-component, low-modulus, moisture-cure, self-leveling, polyurethane joint sealant. Eucolastic 1SL is formulated to be extremely durable in dynamic joints. It provides superior wear resistance to rubber tires and pedestrians in high traffic areas.

### Tammsflex NS / Tammsflex SL

Two-part, elastomeric, polysulphide caulking and sealing compounds. Tammsflex will withstand repeated expansion and contraction and remain resilient through daily and seasonal cyclic changes in temperature. Tammsflex systems have excellent chemical, solvent and water resistance and will withstand joint movement of up to +/-25%.

### Euco QWIKjoint UVR

A UV resistant polyurea floor joint filler which is primarily used for filling construction and control joints in concrete floors. Euco Qwikjoint UVR supports and protects joint edges from heavy loads and wheel traffic, reducing spalling of the joint edges.

## Crack Injection

### Dural 452 LV

A two-component, 100% solids, moisture insensitive, high strength epoxy adhesive and binder for numerous applications. This high modulus, low viscosity epoxy resin is the perfect solution for general bonding applications and for injecting cracks in concrete and a variety of other substrates.

### Dural 452 MV

A two-component, 100% solids, moisture insensitive, high strength epoxy adhesive and binder for numerous applications. This high modulus, medium viscosity epoxy resin is the perfect solution for bonding new, plastic concrete to existing concrete slabs and steel.

### Dural 452 Gel

A two-component, 100% solids, DOT non-corrosive, moisture insensitive, high strength epoxy adhesive and binder for numerous applications. This high modulus, structural gel is perfect for bonding applications that require a non-sag adhesive.

### Dural Aqua-Dam

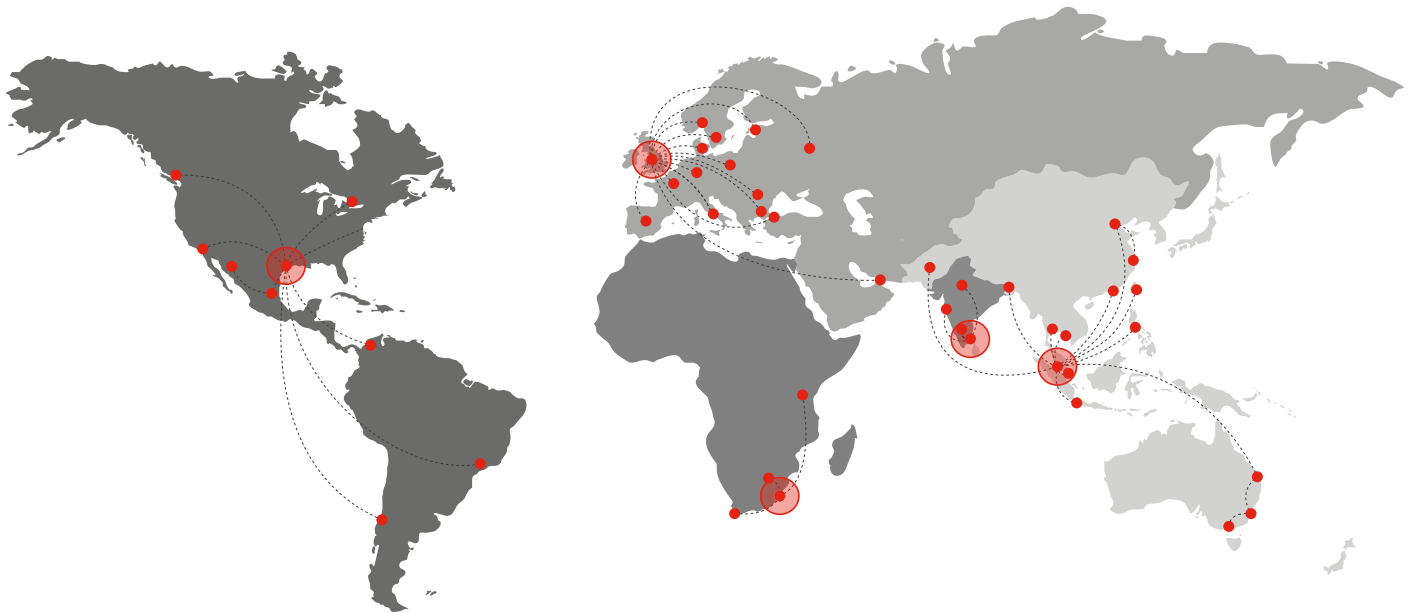
A hydrophobic polyurethane grout that is injected in concrete and other sound substrates to stop water from entering into occupied or unwanted places. Dural Aqua-Dam forms a water tight seal within the substrate that remains even after the water has subsided.

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## Drop off & Landscaping Areas

### Increte Renovate

A two-component, polymer-modified cementitious coating used to resurface concrete. Renovate is designed for application by roller or pump-sprayer, and it is ideal for revitalising stamped concrete. The original stamped pattern of the concrete is not affected by Renovate.



## Flowcrete

World leader in seamless resin flooring solutions and other specialist coatings.

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