



## DECKSHIELD

Car Park Decking Systems for:

- ✓ Exposed Decks
- ✓ Internal Decks
- ✓ Ramps
- ✓ Walkways/Stairwells
- ✓ Demarcation
- ✓ Service Corridors

# Deckshield Range Technical Profile



Multi storey car parks have always been many customers' first point of contact with commercial destinations, but it is only recently that developers have made efforts to improve the quality of the car park experience.

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

Flowcrete's Deckshield range offers a number of colourful deck coating solutions geared up to provide slip-resistance, durability and an excellent service life as well as stand-up to common car park structural problems.



## Total Car Park Decking Solutions

Fast Cure Car Park Decking	✓
Decorative Anti-Carbonation Coatings	✓
Cementitious Concrete Repairs	✓
Structural Expansion Joints	✓
Protective Column Guards	✓
Traffic Calming Speed Bumps	✓

## Performance Benefits

✓	Meets requirements of BS EN 1504
✓	Single source warranty
✓	Installed by approved applicators
✓	Resistant to chemicals, impact, heavy traffic and wear
✓	Attractive finish brightens dull car park environments

# Deckshield ID (2–3mm)

Deckshield ID is a flexible, solvent free polyurethane car park deck coating system for intermediate decks of multi storey structures.

Deckshield cosmetically enhances and reduces noise, making multi storey car parks brighter, safer environments to visit.



## Environmentally Friendly:

Low in Volatile Organic Compounds (VOCs) and solvent free.



## Attractive:

Brightens up dull, dark and musty car park environments.



## Resistant:

Excellent resistance to chemicals, fire and has a low slip potential.



## Reduces Noise:

Minimises unwanted noise from tyre squeal.



## Heavy Duty:

Heavy duty version available for ramps, turning circles and drive aisles.

## Standard Colours



Forest Green



Dark Grey



Mid Grey



Tile Red



Traffic Purple



Traffic Blue

## Technical Profile

### TEMPERATURE RESISTANCE

Softens over 70°C, hardens on cooling

### REACTION TO FIRE

EN 13501-1

B<sub>FL</sub> - s1

### CAPILLARY ABSORPTION & PERMEABILITY TO WATER

EN 1062-3

w < 0.1 kg/m<sup>2</sup> × h<sup>0.5</sup>

### SLIP / SKID RESISTANCE

EN 13036-4

Class I: >40 units wet tested  
Class II: >40 units dry tested

### RESISTANCE TO CHLORIDE IONS

DOT BD47/94: Appendix B, Method B4,2(d)

No chloride ion penetration after 28 days

### ADHESION BY PULL-OFF TEST

EN 1542

≥ 1.5 N/mm<sup>2</sup>  
(with or without trafficking)

### ABRASION RESISTANCE

EN ISO 5470-1

Weight loss < 3000mg using H22 wheel, 1000 cycles, load 1000g

### IMPACT RESISTANCE

EN ISO 6272-1

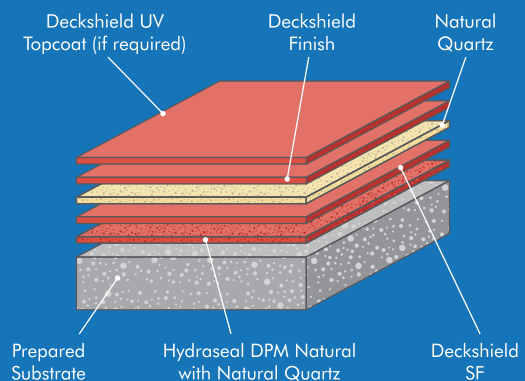
Class II: ≥ 10 Nm

### RESISTANCE TO CHEMICAL ATTACK

BS EN ISO 2812-1

Resistant to petrol, diesel, antifreeze, hydraulic fluids and battery acids.

SPEED OF CURE**	10°C	20°C	30°C
Light Traffic	30 hrs	16 hrs	10 hrs
Full Traffic	36 hrs	24 hrs	16 hrs
Full Chemical Cure	12 days	7 days	5 days



The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.

# Deckshield ED (3–4mm)

Deckshield ED is a flexible polyurethane deck coating system providing a colourful crack bridging, waterproof surface for exposed decks.

Deckshield ED cosmetically enhances and reduces noise, making exposed car park decks brighter, safer environments to visit.



## Environmentally Friendly:

Low in Volatile Organic Compounds (VOCs) and solvent free.



## Attractive:

Brightens up dull, dark and musty car park environments.



## Resistant:

Excellent resistance to chemicals, fire and has a low slip potential.



## Reduces Noise:

Minimises unwanted noise from tyre squeal.



## Heavy Duty:

Heavy duty version available for ramps, turning circles and drive aisles.

## Standard Colours



Forest Green



Dark Grey



Mid Grey



Tile Red



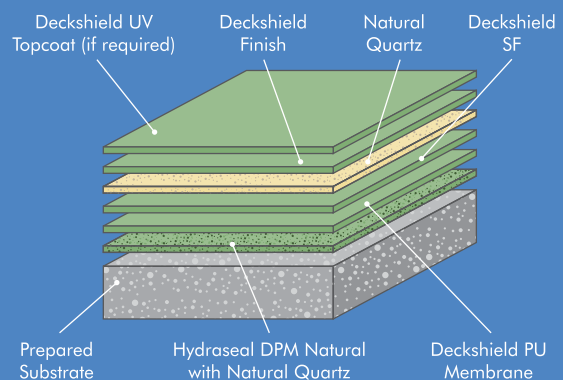
Traffic Purple



Traffic Blue

## Technical Profile

TEMPERATURE RESISTANCE	
Softens over 70°C, hardens on cooling	
REACTION TO FIRE	
EN 13501-1	B <sub>FL</sub> - s1
CAPILLARY ABSORPTION & PERMEABILITY TO WATER	
EN 1062-3	w < 0.1 kg/m <sup>2</sup> × h <sup>0.5</sup>
SLIP / SKID RESISTANCE	
EN 13036-4	Class III: >55 units Wet (outside)
RESISTANCE TO CHLORIDE IONS	
DOT BD47/94: Appendix B, Method B4,2(d)	No chloride ion penetration after 28 days
ADHESION BY PULL-OFF TEST	
EN 1542	≥ 1.5 N/mm <sup>2</sup> (with or without trafficking)
ABRASION RESISTANCE	
EN ISO 5470-1	Weight loss < 3000mg using H22 wheel, 1000 cycles, load 1000g
IMPACT RESISTANCE	
EN ISO 6272-1	Class II: ≥ 10 Nm
CRACK BRIDGING ABILITY	
EN 1062-7 Method A, Table 6	Class A5 (-20°C)
EN 1062-7 Method B, Table 7	Class 4.2 (-20°C)
ARTIFICIAL WEATHERING	
EN 1062-11:2002	No blistering, no cracking and no flaking after 2000h of accelerated UV exposure.



Speed of Cure and Chemical Resistance as per Deckshield ID.

The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.



Exit مخرج



B4  
>>>>

M100 →



# Deckshield Rapide ID

(3–4mm)

Deckshield ID Rapide is a MMA car park deck coating system providing a colourful and waterproof surface for intermediate car park decks.

Developed to enable very fast track applications, and reduce downtime, the system is solvent free and also benefits from excellent bond strength.



### Fast Curing:

Reduced drying times to minimise disruption to car park users.



### Attractive:

Brightens up dull, dark and musty car park environments.



### Resistant:

Waterproof with high resistance to chemicals, fire and has low slip potential.



### Reduces Noise:

Minimises unwanted noise from tyre squeal.



### Heavy Duty:

Heavy duty version available for ramps, turning circles and drive aisles.

## Standard Colours



Traffic Blue



Forest Green



Dark Grey



Mid Grey



Tile Red



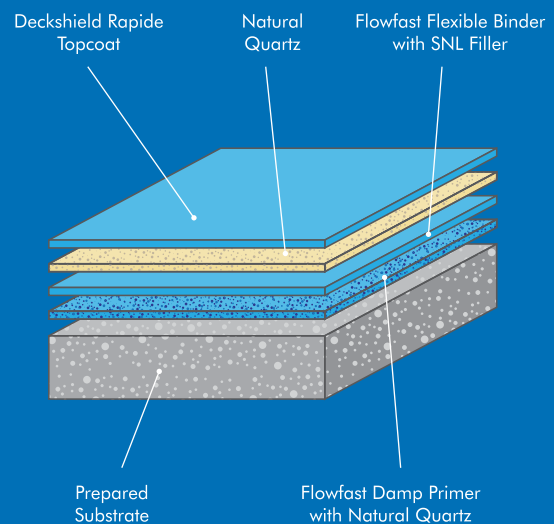
Traffic Purple

The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.

## Technical Profile

REACTION TO FIRE	
EN 13501-1	C <sub>FL</sub> - s1
SLIP / SKID RESISTANCE	
EN 13036-4	Class I: >40 units wet tested Class II: >40 units dry tested
ABRASION RESISTANCE	
EN ISO 5470-1	Weight loss <3000mg using H22 wheel, 1000 cycles, load 1000g
IMPACT RESISTANCE	
EN ISO 6272-1	Class II: ≥ 10 Nm
RESISTANCE TO CHEMICAL ATTACK	
BS EN ISO 2812-1	Resistant to petrol, diesel, antifreeze, hydraulic fluids and battery acids.
ADHESION BY PULL-OFF TEST	
EN 1542	≥ 1.5 N/mm <sup>2</sup> (with or without trafficking)

SPEED OF CURE (PER LAYER)*	
Walk On	1 hr
Full Traffic & Chemical Cure	2–3 hrs



\* 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.

# Deckshield Rapide ED

(4-5mm)

Deckshield ED Rapide is a MMA car park deck coating system providing a colourful watertight, hard-wearing surface for exposed decks.

Deckshield ED Rapide enables fast track applications to dramatically reduce down time, whilst also offering slip resistance properties.



## Fast Curing:

Reduced drying times to minimise disruption to car park users.



## Attractive:

Brightens up dull, dark and musty car park environments.



## Resistant:

Waterproof with high resistance to chemicals, fire and has low slip potential.



## Reduces Noise:

Minimises unwanted noise from tyre squeal.



## Heavy Duty:

Heavy duty version available for ramps, turning circles and drive aisles.

## Standard Colours



Traffic Blue



Forest Green



Dark Grey



Tile Red



Mid Grey

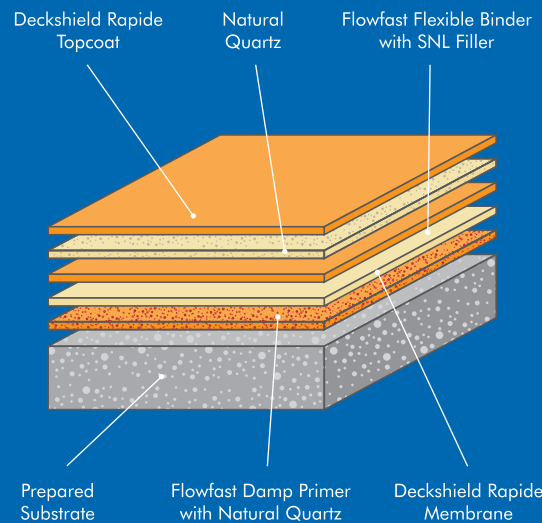


Traffic Purple

The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.

## Technical Profile

REACTION TO FIRE	
EN 13501-1	C <sub>FL</sub> - s1
CAPILLARY ABSORPTION & PERMEABILITY TO WATER	
EN 1062-3	w < 0.1kg/m <sup>2</sup> × h <sup>0.5</sup>
SLIP / SKID RESISTANCE	
EN 13036-4	Class III: >55 units Wet (outside)
RESISTANCE TO CHLORIDE IONS	
DOT BD47/94: Appendix B, Method B4,2(d)	No chloride ion penetration after 28 days
ADHESION BY PULL-OFF TEST	
EN 1542	≥ 1.5 N/mm <sup>2</sup> (with or without trafficking)
ABRASION RESISTANCE	
EN ISO 5470-1	Weight loss < 3000mg using H22 wheel, 1000 cycles, load 1000g
IMPACT RESISTANCE	
EN ISO 6272-1	Class II: ≥ 10 Nm
CRACK BRIDGING ABILITY	
EN 1062-7 Method A, Table 6	Class A3 (-20°C)
ARTIFICIAL WEATHERING	
EN 1062-11:2002	No blistering, no cracking and no flaking after 2000h of accelerated UV exposure.



Speed of Cure and Chemical Resistance as per Deckshield Rapide ID.

\*\* 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.







Reserved  
for disabled  
customers



# Deckshield Linemarker QD (0.11mm)

A single component, solvent based, high build line marking product used for demarcation in car parks.

Deckshield Linemarker QD is fast drying and boasts good adhesion to a wide range of substrates e.g. wood, steel, concrete and Deckshield car park decking systems.



### Fast Curing:

Reduced drying times to minimise disruption to car park users.



### Bright Colours:

Vivid colours available to improve visibility and safety.



### Durable:

Excellent abrasion resistance to withstand vehicular traffic.

## Standard Colours



White



Traffic Yellow

## Technical Profile

### TEMPERATURE RESISTANCE

Tolerant up to 80°C

### FIRE RESISTANCE

BS 476-7 Surface Spread of Flame	Class 3 (indicative)
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### SLIP RESISTANCE

TRRL Pendulum Slip Test	Dry >90, Wet >40
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### ABRASION RESISTANCE

BS 8204-2	Class AR2
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### CHEMICAL RESISTANCE

Resistant to petrol, diesel and oil

### WATER PERMEABILITY

Karsten Test	Nil (Impermeable)
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### BOND STRENGTH

1.5 MPa\*

SPEED OF CURE*	10°C	20°C	30°C
Dry to no pickup	40 mins	10 mins	10 mins
Dry Through Time	40 mins	< 20 mins	< 10 mins
Full Traffic	> 12 hrs	> 4 hrs	> 3 hrs
Overcoating	> 12 hrs	> 4 hrs	> 3 hrs

\*Assumes concrete compressive strength is greater than 25N/mm<sup>2</sup>



The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.



## Flowcrete Group

Flowcrete Group Ltd is the world's leading specialist in seamless resin flooring, screeds and other coating technologies, with operations across five continents.

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