

## DECKSHIELD

- ▶ A number of colourful deck coating solutions designed to provide slip-resistance, durability and an excellent service life, as well as stand-up to common car park structural problems.

# Deckshield Range Technical Profile

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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 Australia's Deckshield range offers a number of colourful deck coating solutions designed to provide slip-resistance, durability and an excellent service life, as well as stand-up to common car park problems. What's more, Flowcrete's deck coating systems are Singapore Green Label certified.

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## Application Suitability



Exposed Decks



Internal Decks



Ramps



Instructional Signage



Demarcation



Kerbs/Islands



# Deckcoat EP (0.35mm)

A car park deck coating system providing a colourful, watertight surface for car park bays and straight driveway areas.

Typically used to cosmetically enhance, reduce noise and brighten internal car parks.



### Durable:

Hard wearing, durable and abrasion resistant protective coating.



### Attractive:

Brightens up dull, dark and musty industrial environments.



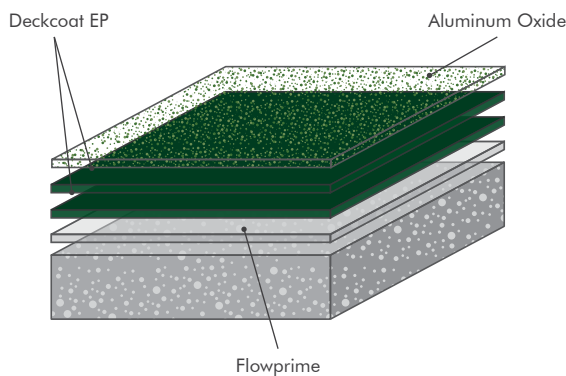
### Low Maintenance:

Seamless, hygienic finish, which requires low maintenance.



### Resistant:

Resistance to chemicals, fire and has a low slip potential.



## Technical Profile

### FIRE RESISTANCE - AS/ISO 9239.1

CHF Value: - kW/m<sup>2</sup>, Smoke Value: 5% (Mean)

### SLIP RESISTANCE\*

Method described in AS4586-2013

Ratings between P1–P5 are achievable depending on specification.

### TEMPERATURE RESISTANCE

Tolerant up to 60°C

### WATER PERMEABILITY

Karsten Test

Nil (Impermeable)

### SURFACE HARDNESS

Koenig Hardness Test

180 secs

### BOND STRENGTH

ASTM D4541 (Pull-Off Test)

> 1.5 MPa\*\*

### ABRASION RESISTANCE

Taber Abrader BS8204-2  
1 kg load using CS10 wheels

80 mg loss per 1000 cycles  
Grade AR2

### COMPRESSIVE STRENGTH

BS6319

>60 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

BS6319

>40 N/mm<sup>2</sup>

### TENSILE STRENGTH

BS6319

> 15 N/mm<sup>2</sup>

### CHEMICAL RESISTANCE

Contact Technical Department

### SPEED OF CURE\*\*\*

	10°C	20°C	30°C
Light Traffic	48 hrs	24 hrs	18 hrs
Full Traffic	72 hrs	48 hrs	36 hrs
Full Chemical Cure	12 days	7 days	6 days

\*The slipperiness of flooring materials can change significantly, due to the installation process, after short periods of use, due to inappropriate maintenance, longer-term wear and/or surface contaminants (wet or dry). Textured systems are recommended to meet slip resistance value requirements for wet conditions and/or surface contaminants (wet/dry). Please contact our Technical Advisers for further details. \*\*Assume concrete or substrate is a minimum of 25 N/mm<sup>2</sup>. \*\*\*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.

These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

# Deckshield ED Rapide

(4mm)

Deckshield ED Rapide is a flexible MMA car park deck coating providing a colourful, watertight, durable surface for exposed decks.

Typically used to cosmetically enhance and protect external and multi-storey car parks.



## Rapid Curing:

Fast track application, dramatically reducing program time.



## Noise Reduction:

Higher textured finishes reduce tyre squeal.



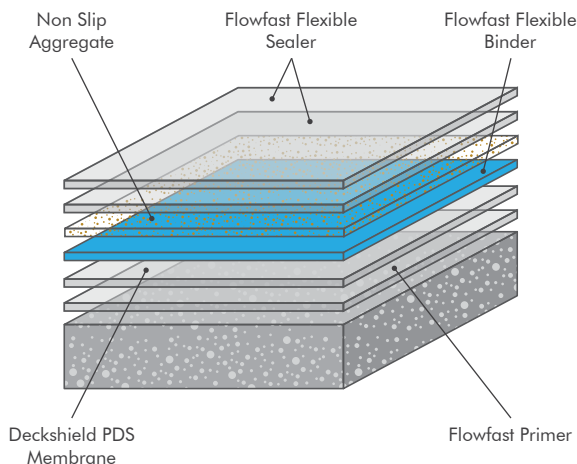
## Colourful:

Aesthetically attractive to brighten dark, dull car parks.



## Resistant:

Provides fire, slip, abrasion and chemical resistance.



## Technical Profile

FIRE RESISTANCE	
EN 13501-1	C <sub>FL</sub> -s1
SLIP RESISTANCE*	
Method described in AS4586-2013	Ratings between P1–P5 are achievable depending on specification.
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
RESISTANCE TO CHLORIDE IONS	
DOT BD47/94: Appendix B Method B4, 2 (d)	No chloride ion penetration after 28 days.
BOND STRENGTH	
ASTM D4541 (Pull-Off Test)	> 1.5 MPa**
ABRASION RESISTANCE	
Taber Abrader	300 mg loss per 1000 cycles 1 kg load using CS17 wheels
CRACK-BRIDGING	
BS EN 1062-7 Method A Table 6	Class A3 (-20°C)
CHEMICAL RESISTANT	
Contact Technical Department. Resistant to petrol, diesel, anti-freeze, hydraulic fluid, chlorides and battery acids.	
SPEED OF CURE***	PER COAT
Walk on	1 hr
Full Traffic & Chemical Cure	2–3 hrs

\*The slipperiness of flooring materials can change significantly, due to the installation process, after short periods of use, due to inappropriate maintenance, longer-term wear and/or surface contaminants (wet or dry). Textured systems are recommended to meet slip resistance value requirements for wet conditions and/or surface contaminants (wet/dry). Please contact our Technical Advisers for further details. \*\*Assume concrete or substrate is a minimum of 25 N/mm<sup>2</sup>. \*\*\*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.

These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

# Deckshield ID (1.5mm)

A low VOC, flexible polyurethane deck coating system that transforms intermediate decks of multi-storey parking structures.

Typically used to cosmetically enhance, reduce noise, protect and brighten internal car parks.



### Environmentally Friendly:

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



### Reduces Noise:

Minimises unwanted noise from tyre squeal.



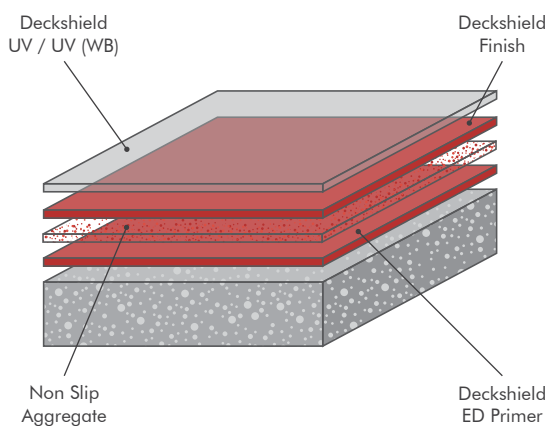
### Attractive:

Brightens up dull, dark and musty industrial environments.



### Resistant:

Hard wearing, durable, chemical and abrasion resistant.



## Technical Profile

FIRE RESISTANCE	
EN 13501-1	B <sub>FL</sub> -s1
SLIP RESISTANCE*	
Method described in AS4586-2013	Ratings between P1-P5 are achievable depending on specification.
TEMPERATURE RESISTANCE	
Softens over 70°C, hardens on cooling	
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
BOND STRENGTH	
ASTM D4541 (Pull-Off Test)	> 1.5 MPa**
ABRASION RESISTANCE	
Taber Abrader ASTM D4060 1 kg load using CS17 wheels	0.1g loss per 1000 cycles
VOC CONTENT	
ISO 11890-2	Very Low < 20 g/L
UV RESISTANCE	
Excellent (Non-Yellowing)	
CHEMICAL RESISTANCE	
Contact Technical Department	
CHLORIDE ION RESISTANCE	
IDOT BD47/94: Appendix B Method B4, 2 (d)	Result: No Chloride ion penetration in 28 days.

SPEED OF CURE***	10°C	20°C	30°C
Light Traffic	48 hrs	24 hrs	18 hrs
Full Traffic	72 hrs	48 hrs	36 hrs
Full Chemical Cure	12 days	7 days	6 days

\*The slipperiness of flooring materials can change significantly, due to the installation process, after short periods of use, due to inappropriate maintenance, longer-term wear and/or surface contaminants (wet or dry). Textured systems are recommended to meet slip resistance value requirements for wet conditions and/or surface contaminants (wet/dry). Please contact our Technical Advisers for further details. \*\*Assume concrete or substrate is a minimum of 25 N/mm<sup>2</sup>. \*\*\*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.

These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

# Deckshield ID Rapide (2mm)

Deckshield ID Rapide is a flexible MMA car park deck coating system providing a colourful, durable and rapid curing finish.

Typically used to enhance and protect multistorey car parks and suspended floors



## Rapid Curing:

Fast track application, dramatically reducing program time.



## Noise Reduction:

Higher textured finishes reduce tyre squeal.



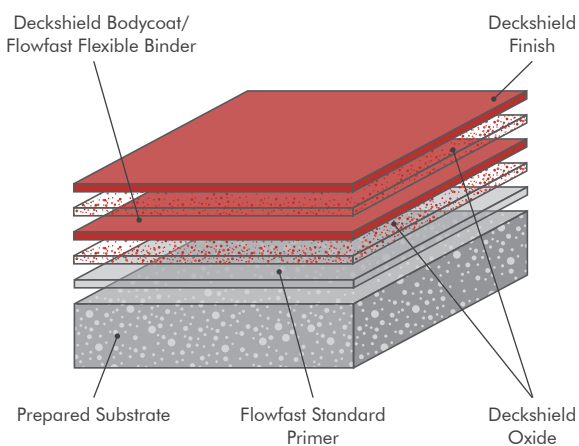
## Colourful:

Aesthetically attractive to brighten dark, dull car parks.



## Resistant:

Provides fire, slip, abrasion and chemical resistance.

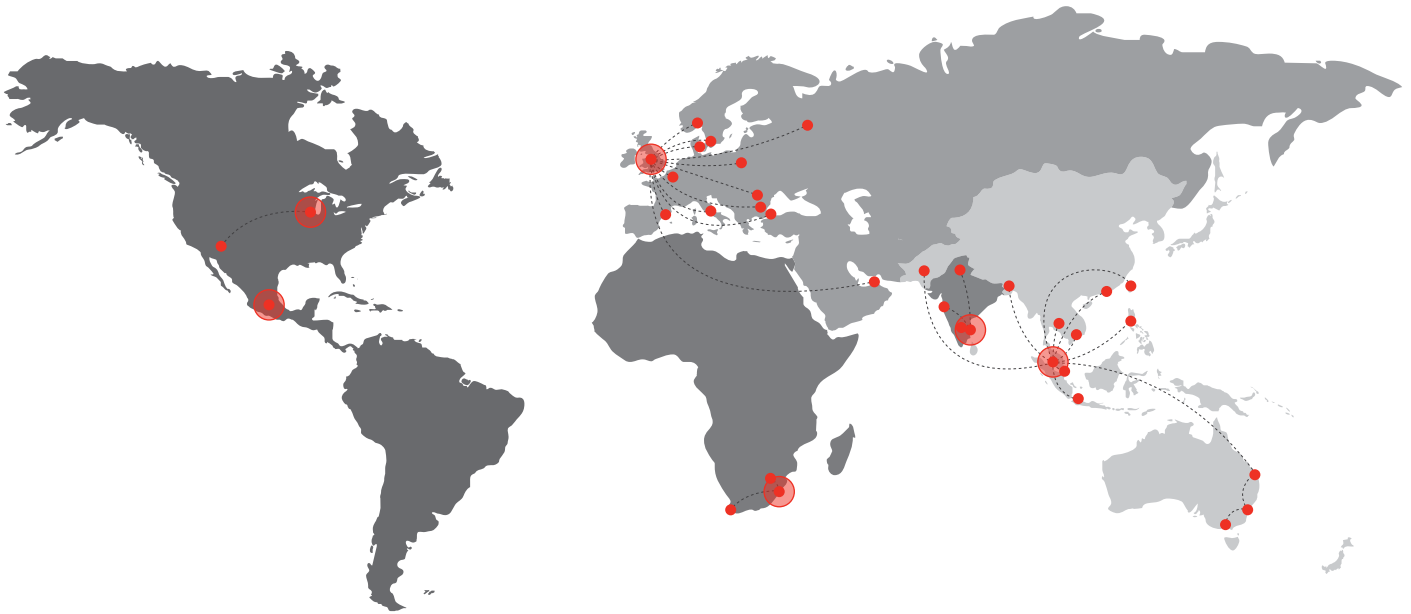


## Technical Profile

FIRE RESISTANCE	
EN 13501-1	C <sub>FL</sub> -s1
SLIP RESISTANCE*	
Method described in AS4586-2013	Ratings between P1–P5 are achievable depending on specification.
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
RESISTANCE TO CHLORIDE IONS	
DOT BD47/94: Appendix B Method B4, 2 (d)	No chloride ion penetration after 28 days.
BOND STRENGTH	
ASTM D4541 (Pull-Off Test)	> 1.5 MPa**
ABRASION RESISTANCE	
Taber Abrader	300 mg loss per 1000 cycles 1 kg load using CS17 wheels
CHEMICAL RESISTANT	
Contact Technical Department. Resistant to petrol, diesel, anti-freeze, hydraulic fluid, chlorides and battery acids.	
SPEED OF CURE***	PER COAT
Walk on	1 hr
Full Traffic & Chemical Cure	2–3 hrs

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These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.



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