



## DECKSHIELD

- ▶ Protection systems designed to meet contemporary requirements for upmarket car park environments.

# 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.



## Deckshield Guarantee

Flowcrete guarantees an individual approach to each project and the selection of flooring systems to meet the requirements of the facility and the individual zones. If necessary, we develop individual flooring specifications tailored for extreme conditions, such as the spikes on cars and the increased risk of slipping on steep ramps in unfavourable weather conditions.

## Performance Guarantee

✓	Thermal Resistance from -35°C
✓	Slip Resistant
✓	Great ability to bridge scratches in the substrate, even at very low temperatures
✓	The ability to adapt the specifications to very heavy mechanical loads

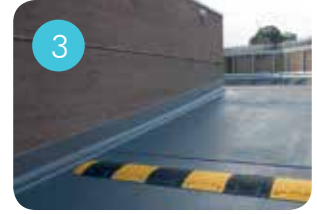
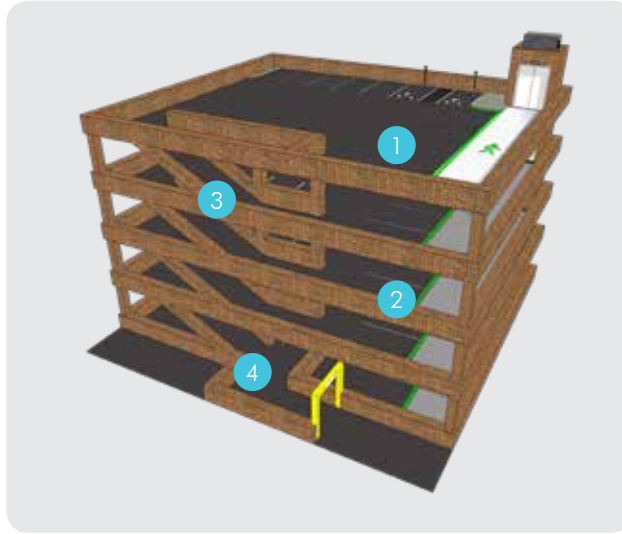
# Application in Various Parking Areas



External Car Parks



Internal Car Parks



External Ramps



Internal Ramps



	THICKNESS	DESCRIPTION	1	2	3	4
Deckshield ID	1.5 mm	A flexible, solvent free polyurethane car park deck coating system which provides a colourful crack bridging, waterproof wearing surface for intermediate decks of multi-storey car parks.		✓		
Deckshield ED	2 mm	A flexible, solvent free polyurethane car park deck coating system which provides a colourful crack bridging, waterproof wearing surface for exposed decks of multi-storey car parks.	✓			
Deckshield ID HD	2.5 mm	Deckshield ED HD is a polyurethane flexible car park deck coating system for internal ramps.				✓
Deckshield ED HD	3 mm	Deckshield ED HD is polyurethane, UV resistant, flexible car park deck coating system for exposed heavy duty traffic areas such as ramps and loading bays.			✓	



	THICKNESS	DESCRIPTION	1	2	3	4
Deckshield EM	0.5 mm	A layer of elastic membrane that increases the ability of the floor to bridge the scratch in the substrate. Provides additional protection against ingress of water and leaks. Used in Deckshield ED and Deckshield ED HD, can be used in Deckshield ID and Deckshield ID HD as needed.	✓	✓	✓	✓
Deckshield Linemarker QD	-	One-component, solvent-based, high build line marking paint for the Deckshield system.	✓	✓	✓	✓
Deckshield Topcoat	-	A 2-component, coloured, UV light stable, polyurethane coating, used as part of the Deckshield system to provide a UV light stable finish (recommended for exposed decks).	✓	✓	✓	✓





B4  
▶▶▶▶

MIBA →



# Deckshield ID

A flexible, solvent free polyurethane car park deck coating system for intermediate decks of multi-storey structures.

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



## Environmentally Friendly:

Low in Volatile Organic Compounds (VOCs) solvent free and provides points to LEED certification.



## 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.



## Crack Resistant:

Uses quartz sand to receive very high abrasion resistance and extreme durability.

## Standard Colours



Forest Green



Dark Grey



Mid Grey



Tile Red



Arabian Yellow

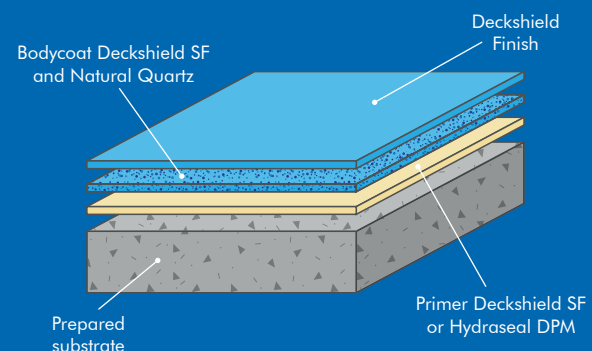


Traffic Blue

## Technical Profile

TEMPERATURE RESISTANCE	
To 70°C	
REACTION TO FIRE	
EN 13501-1:2007	B <sub>fl</sub> - s1
WATER PERMEABILITY	
Karsten test	Nil Impermeable
SLIP RESISTANCE	
EN 13036-4	Dry > 40, Wet > 40
RESISTANCE TO CHLORIDE IONS	
DOT BD47/94: Appendix B, Method B4,2(d)	No chloride ion penetration after 28 days
BOND STRENGTH	
EN 1542	Greater than cohesive strength of 25 N/mm <sup>2</sup> concrete > 1.5 MPa
ABRASION RESISTANCE	
EN ISO 5470-1	40 mg loss per 1000 cycles (1 kg load using H-22 wheels)
TEAR STRENGTH	
MOAT 27 Method 5.4.1	192 N
TENSILE / ELONGATION N / mm <sup>2</sup>	
BS2782: Part 3 Method 320A, All samples heat aged at 70°C	1 day: 5.4/50.4 7 day: 7.15/40.2 28 day: 7.17/30.5
CHEMICAL RESISTANCE	
Resistant to petrol, diesel, antifreeze, hydraulic fluid, chlorides 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



# Deckshield ED

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) solvent free and provides points to LEED certification.



### Attractive:

Decorative finish in striking colours for aesthetic appeal.



### Resistant:

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



### Reduces Noise:

Minimises unwanted noise from tyre squeal.



### Crack Resistant:

Uses quartz sand to receive very high abrasion resistance and extreme durability.

## Standard Colours



Forest Green



Dark Grey



Mid Grey



Tile Red



Arabian Yellow



Traffic Blue

## Technical Profile

### TEMPERATURE RESISTANCE

From - 35°C to 70°C

### FLEXIBILITY AT LOW TEMPERATURES

MOAT 27 Method 5.4.2, no membrane cracking in temp. -20°C

### REACTION TO FIRE

EN 13501-1:2007

B<sub>fl</sub> - s1

### WATER PERMEABILITY

Karsten test

Nil Impermeable

### SLIP RESISTANCE

EN 13036-4

Dry >40, Wet >55

### RESISTANCE TO CHLORIDE IONS

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

No chloride ion penetration after 28 days

### BOND STRENGTH

EN 1542

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

### ABRASION RESISTANCE

EN ISO 5470-1

Taber Test: 40 mg/wheel H22/1000 g/1000 cycles

### TEAR STRENGTH

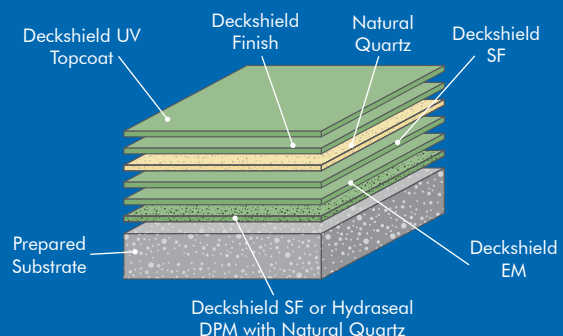
MOAT 27 Method 5.4.1

192 N

### CHEMICAL RESISTANCE

Resistant to petrol, diesel, antifreeze, hydraulic fluid, chlorides 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 the Flowcrete Polska office.



Exit مخرج







# Deckshield HD

A heavy-duty flexible polyurethane deck coating system designed for use on inclined concrete slabs, such as ramps, exits and entrances.

Deckshield HD delivers excellent slip resistance, making car parks safer environments to visit.



### Fast Curing:

Reduced drying times to minimise disruption to car park users.



### Attractive:

Brightens up dull, dark and musty car park environments.



### Crack Resistant:

Resistant to cracking to provide a flexible waterproof membrane



### Heavy Duty:

Incorporates quartz sand for extreme durability on ramps and turning circles.

## Standard Colours



Forest Green



Dark Grey



Mid Grey



Tile Red



Arabian Yellow



Traffic Blue

## Technical Profile

### TEMPERATURE RESISTANCE

To 70°C

### FLEXIBILITY AT LOW TEMPERATURES (ED HD)

MOAT 27 Method 5.4.2, no membrane cracking in temperature -20°C

### REACTION TO FIRE

EN 13501-1:2007

B<sub>fl</sub> - s1

### WATER PERMEABILITY

Karsten test

Nil Impermeable

### SLIP RESISTANCE

EN 13036-4

Dry >80, Wet >55 (ED HD)

### RESISTANCE TO CHLORIDE IONS

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

No chloride ion penetration after 28 days

### BOND STRENGTH

EN 1542

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

### ABRASION RESISTANCE

EN ISO 5470-1

Taber Test: 40 mg/wheel H22/1000 g/1000 cycles

### TEAR STRENGTH

MOAT 27 Method 5.4.1

192 N

### TENSILE / ELONGATION N / mm<sup>2</sup>

BS2782:Part 3 Method 320A. All samples heat aged at 70°C

1 day 5.4/50.4  
7 day 7.15/40.2  
28 day 7.17/30.5

### CHEMICAL RESISTANCE

Resistant to petrol, diesel, antifreeze, hydraulic fluid, chlorides 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

For a full Technical Profile, contact your local Technical Department.

## Technical Profile

### TEMPERATURE RESISTANCE

Tolerant up to 80°C

### FIRE RESISTANCE

BS 476-7  
Surface Spread of Flame

Class 3 (indicative)

### SLIP RESISTANCE

EN 13036-4

Dry >40, Wet >40

### CHEMICAL RESISTANCE

Resistant to petrol, diesel and oil

### WATER PERMEABILITY

Karsten Test

Nil (Impermeable)

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

## Deckshield Linemarker QD

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.



Reduced drying times to minimise disruption to car park users



Vivid colours available to improve visibility and safety



Excellent abrasion resistance to withstand vehicular traffic

## Standard Colours

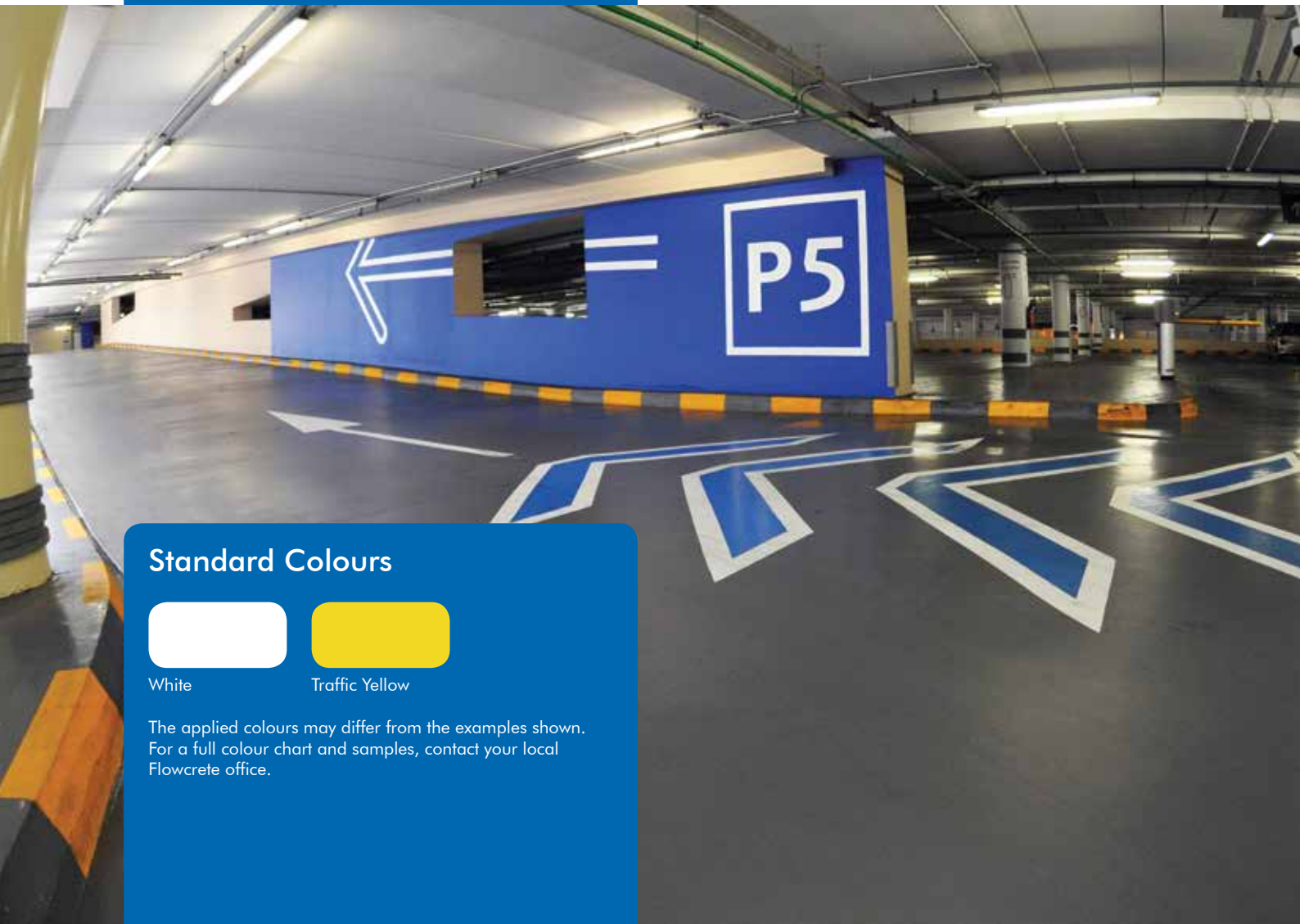


White



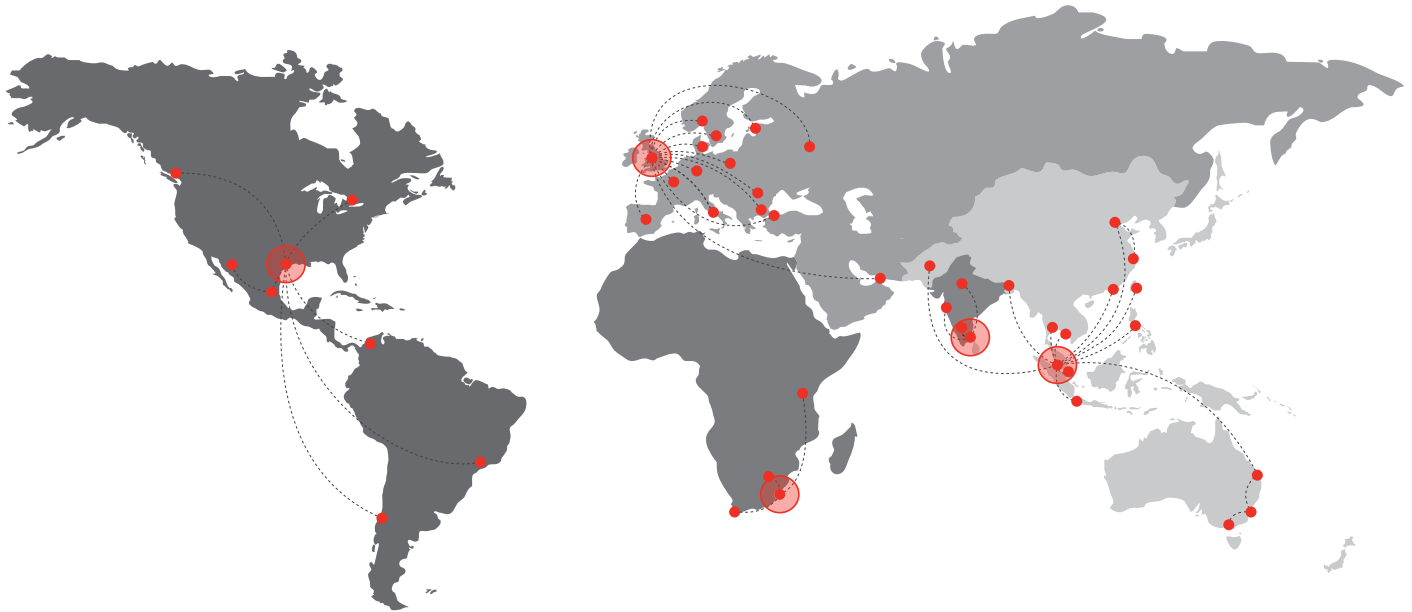
Traffic Yellow

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









## Flowcrete

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