



DECKSHIELD

- ▶ 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 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 (2–3 mm)

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_{FL} - s1

CAPILLARY ABSORPTION & PERMEABILITY TO WATER

EN 1062-3

w < 0.1 kg/m² × h^{0.5}

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/mm²
(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

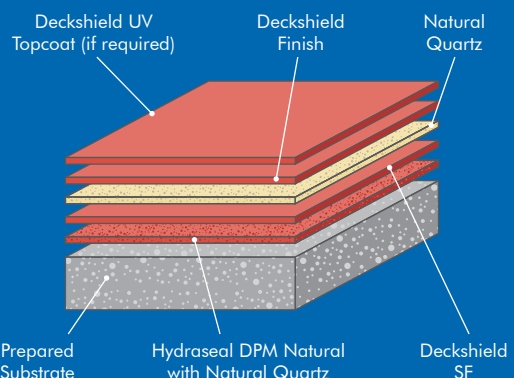
Class III: ≥ 20 Nm

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 (3–4 mm)

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



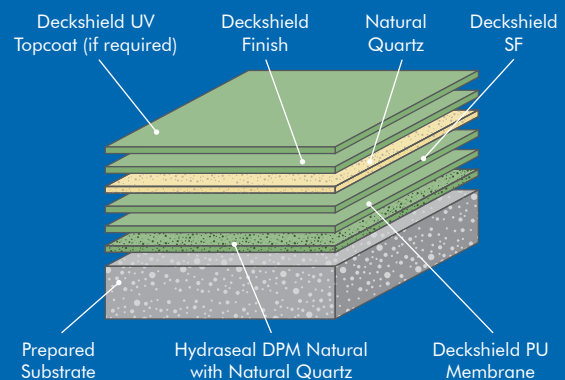
Traffic Purple



Traffic Blue

Technical Profile

TEMPERATURE RESISTANCE	
Softens over 70°C, hardens on cooling	
REACTION TO FIRE	
EN 13501-1	B _{FL} - s1
CAPILLARY ABSORPTION & PERMEABILITY TO WATER	
EN 1062-3	w < 0.1 kg/m ² × h ^{0.5}
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 ² (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 III: ≥ 20 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



L4
B4
>>>>

M10A →



Deckshield Rapide ID

(3–4 mm)

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



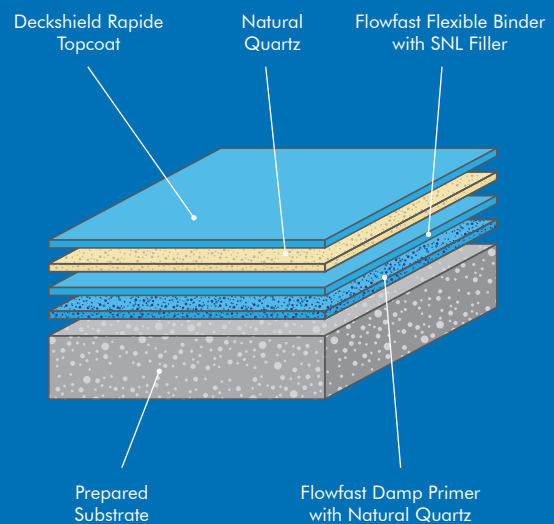
Traffic Purple

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 _{FL} - 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 III: ≥ 20 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 ² (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

(4–5 mm)

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

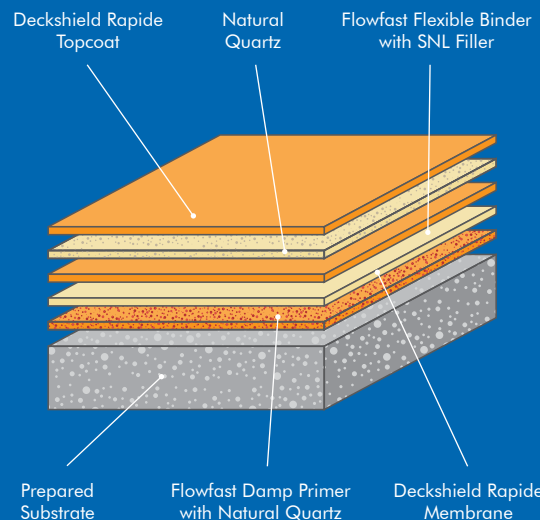


Traffic Purple

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 _{FL} - s1
CAPILLARY ABSORPTION & PERMEABILITY TO WATER	
EN 1062-3	w < 0.1kg/m ² × h ^{0.5}
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 ² (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 III: ≥ 20 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 (0.11 mm)

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

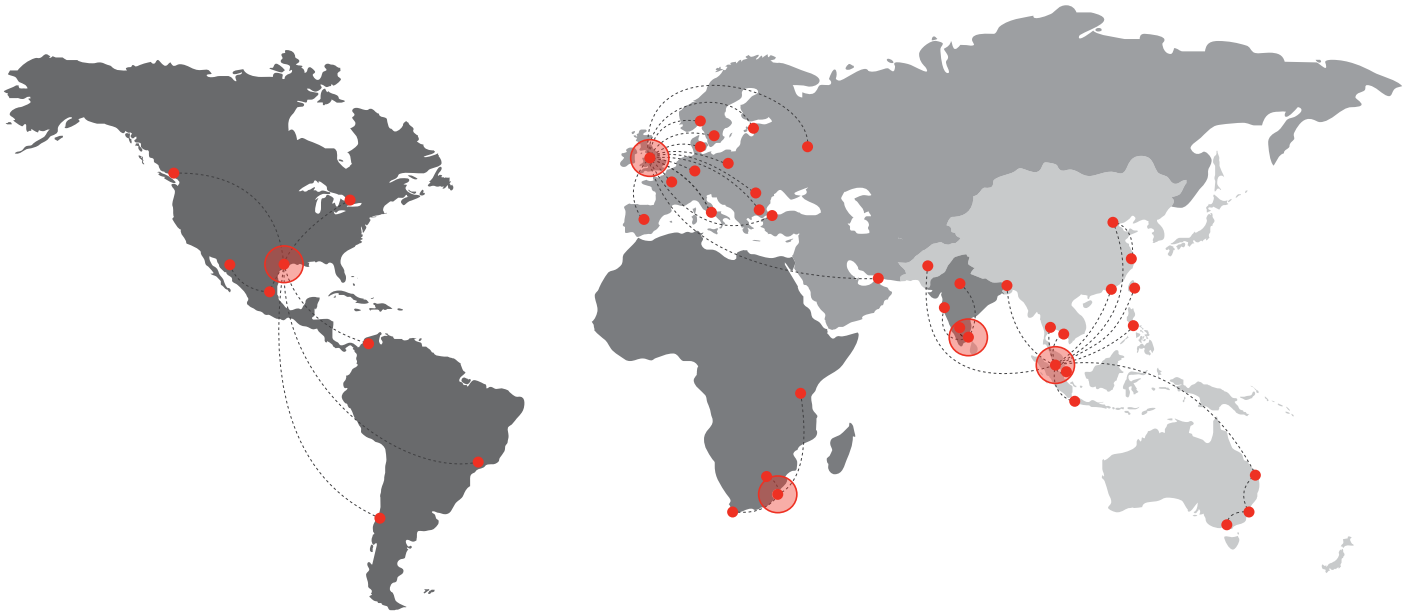
1.5 MPa*

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/mm²



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



Flowcrete

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

Europe & Middle East

Baltic States	+48 883 303 880	latvia@flowcrete.com
Bulgaria	+359 898 61 58 31	bulgaria@flowcrete.com
Denmark	+46 435 40 01 10	denmark@flowcrete.com
France	+33 1 60 61 74 42	france@flowcrete.com
Germany	+49 4187 50 29 470	germany@flowcrete.com
Italy	+39 339 4853258	italy@flowcrete.com
Norway	+47 6486 0830	norway@flowcrete.com
Poland	+48 22 879 8907	poland@flowcrete.com
Romania	+40 766 596 991	romania@flowcrete.com
Russia	+7 916 931 35 13	russia@flowcrete.com
Spain	+34 937 07 0872	spain@flowcrete.com
Sweden	+46 435 40 01 10	sweden@flowcrete.com
Turkey	+90 212 294 6567	turkey@flowcrete.com
UAE	+971 4 886 4728	uae@flowcrete.com
UK	+44 1270 753 000	uk@flowcrete.com

Africa

East Africa	+254 20 682 1011	eastafrica@flowcrete.com
South Africa	+27 31 701 0017	southafrica@flowcrete.com

India

India	+91 44 4017 6600	india@flowcrete.com
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Asia Pacific

Australia	+61 7 3205 7115	australia@flowcrete.com
Bangladesh	+88 02 985 7222	bangladesh@flowcrete.com
China	+86 10 8472 1912	china@flowcrete.com
Hong Kong	+852 2795 0478	hongkong@flowcrete.com
Indonesia	+62 21 252 3201	indonesia@flowcrete.com
Malaysia	+60 3 6277 9575	malaysia@flowcrete.com
Pakistan	+92 337 3159272	pakistan@flowcrete.com
Philippines	+63 2 834 6506	philippines@flowcrete.com
Singapore	+65 6848 7166	singapore@flowcrete.com
Taiwan	+886 916 954 291	taiwan@flowcrete.com
Thailand	+66 2539 3424	thailand@flowcrete.com
Vietnam	+84 28 6287 0846	vietnam@flowcrete.com

Americas

Brazil	+55 11 3230 1107	brazil@flowcrete.com
Canada	+1 604 628 1782	canada@flowcrete.com
Chile	+56 2 2938 1962	chile@flowcrete.com
Colombia	+57 1 381 9254	colombia@flowcrete.com
Mexico	+01 800 099 0468	mexico@flowcrete.com
USA	+1 936 539 6700	usa@flowcrete.com

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