

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 problems. What's more, Flowcrete's deck coating systems are Singapore Green Label certified.

Application Suitability



Exposed Decks



Internal Decks



Ramps



Instructional Signage



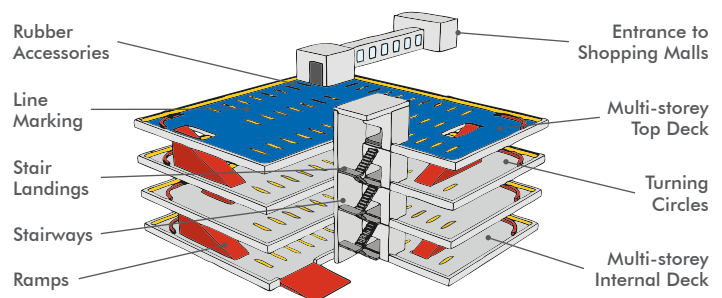
Demarcation



Kerbs / Islands

Product Selector

Each parking facility consists of a range of zones or areas and requires a number of surface applications as a result. Flowcrete offers a wide range of flooring products to meet the surface requirements of the entire car park as well as neighbouring zones.







Technical Profile

TEMPERATURE RESISTANCE	
Softens over 70°C, hardens on cooling	
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*
FIRE RESISTANCE	
BS 476-3	Designated EXT.FAA
SLIP RESISTANCE	
TRRL Pendulum Slip Test	Dry > 40, Wet depends on specification
ABRASION RESISTANCE	
Taber Abrader	0.1 mg loss per 1000 cycles (1 kg load using CS17 wheels)

Deckshield ED

A polyurethane car park deck coating system providing a crack bridging, waterproof surface for exposed decks.

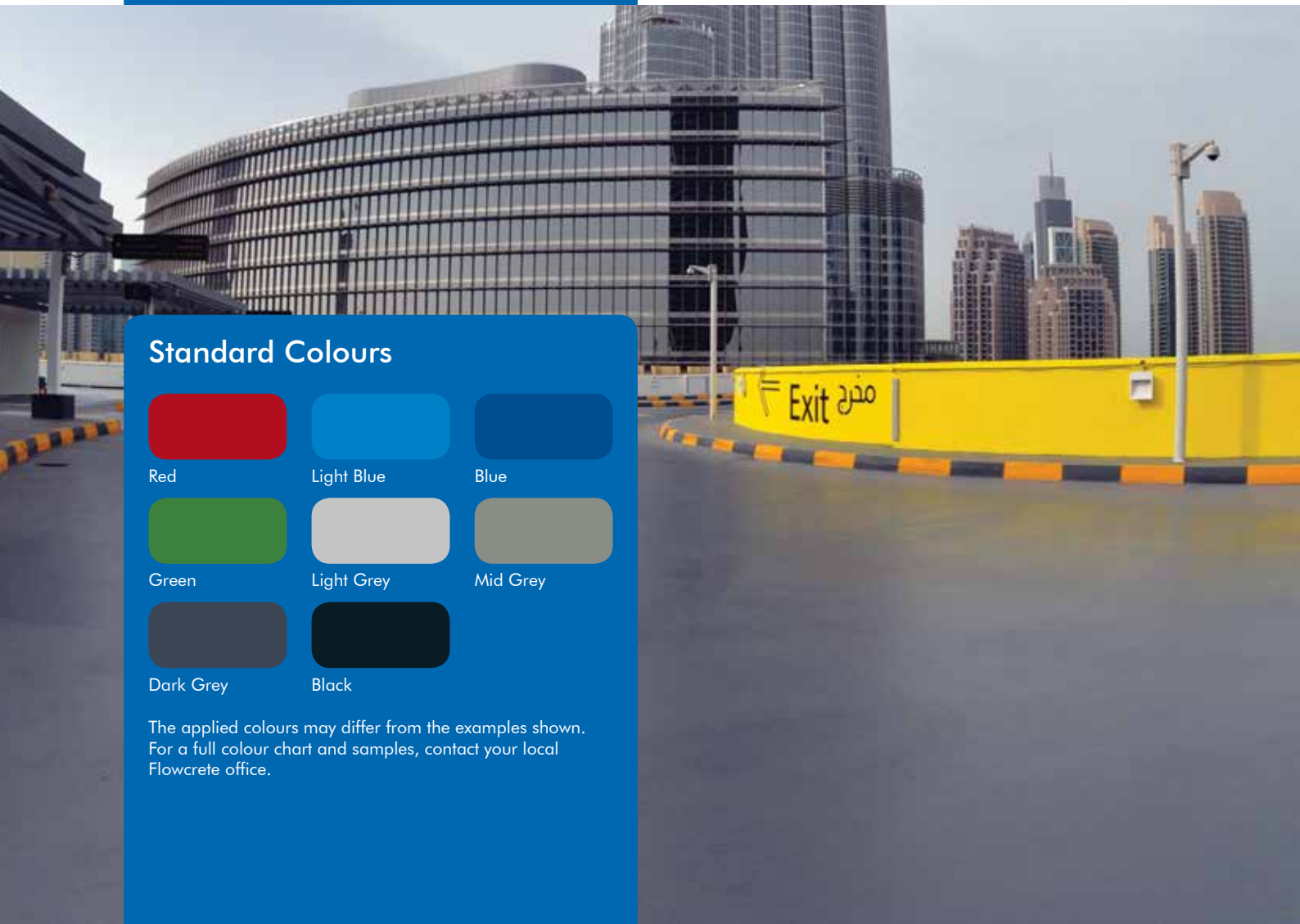
Deckshield ED cosmetically enhances, reduces noise and protects exposed car park decks from the elements.

-  Low in VOCs and solvent free
-  Minimises noise from tyre squeal
-  Chemicals, fire and slip resistant
-  Prevents yellowing UV exposure

Standard Colours



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



Deckshield ID

A low VOC 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) 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.



Fire Resistant:

Delivers impressive resistance to the spread of flames.

Standard Colours



Red



Light Blue



Blue



Green



Light Grey



Mid Grey



Dark Grey



Black

Technical Profile

TEMPERATURE RESISTANCE

Softens over 70°C, hardens on cooling

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*

SLIP RESISTANCE

TRRL Pendulum Slip Test Dry >40, Wet depends on specification

ABRASION RESISTANCE

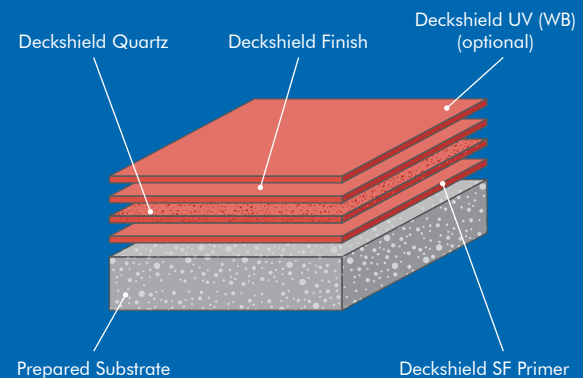
Taber Abrader 0.1 mg loss per 1000 cycles (1 kg load using CS17 wheels)

VOC CONTENT

ISO 11890-2 Very low <20 g/L

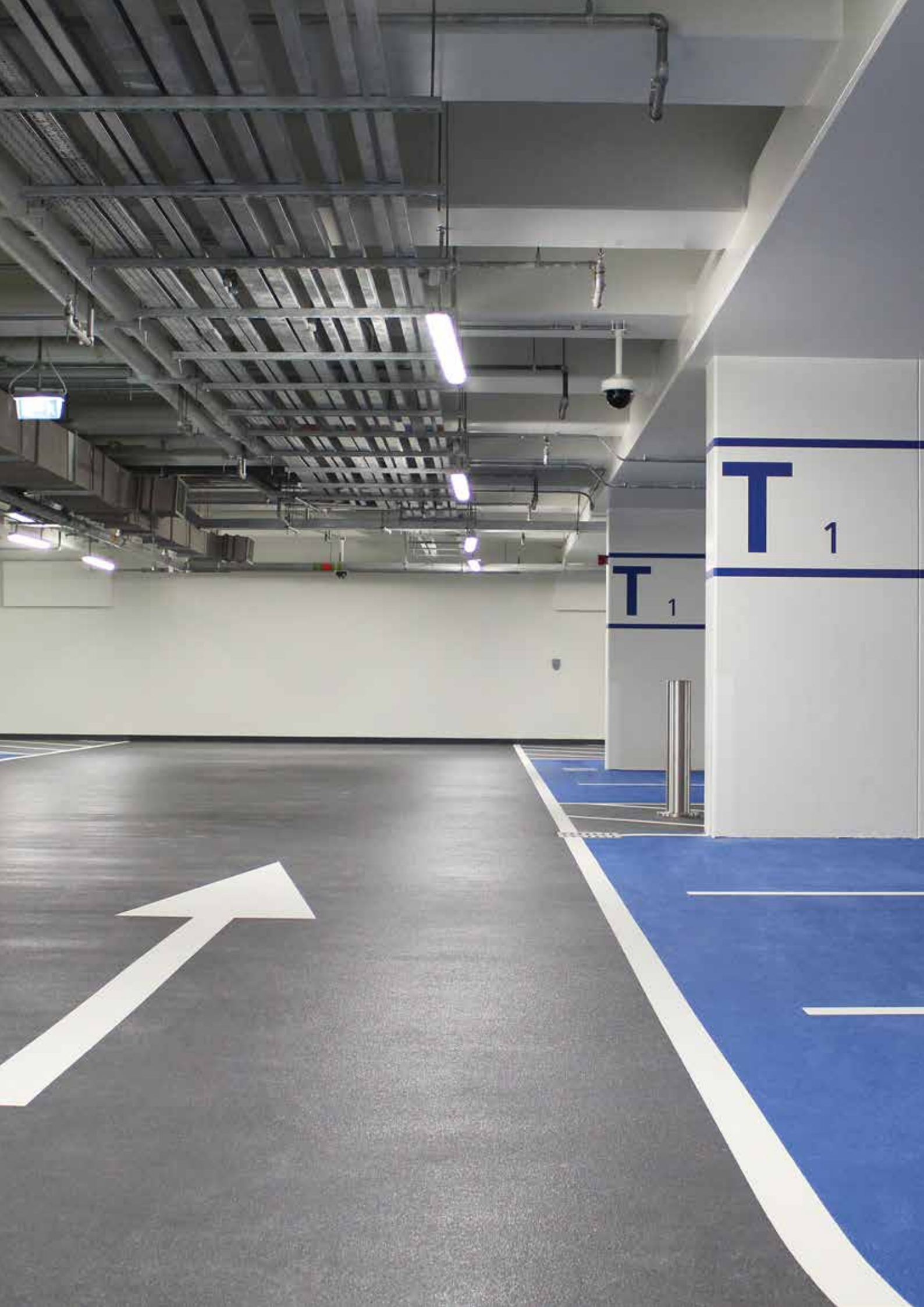
SPEED OF CURE**	10°C	20°C	30°C
Light Traffic	30 hrs	18 hrs	12 hrs
Full Traffic	48 hrs	36 hrs	24 hrs
Full Chemical Cure	12 days	7 days	6 days

*Assumes concrete compressive strength is greater than 25 N/mm²



** 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.

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





Deckshield ES

A solvent free polyurethane flexible car park deck coating system for use over exposed decks of multi-storey car parks.

Deckshield ES provides a colourful crack bridging, waterproof wearing surface for refurbishment of existing car parks and on new construction projects.



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.



UV Stable:

100% UV light stable. Prevents from yellowing effect.

Standard Colours



Red



Light Blue



Blue



Green



Light Grey



Mid Grey



Dark Grey



Black

Technical Profile

TEMPERATURE RESISTANCE

Softens over 70°C, hardens on cooling

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

>1.5 MPa*

FIRE RESISTANCE

BS 476-3 Designated EXT.FAA

SLIP RESISTANCE

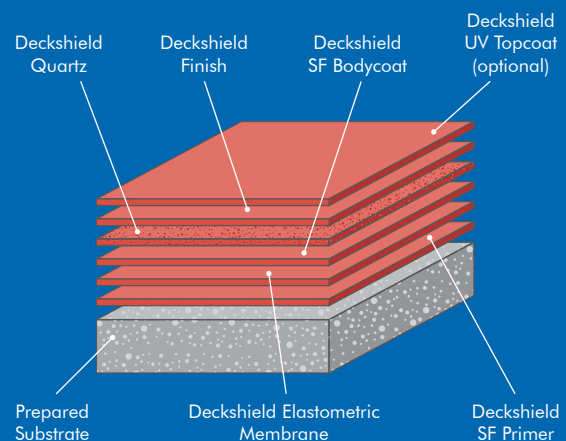
TRRL Pendulum Slip Test Dry 73, Wet 62

ABRASION RESISTANCE

Taber Abrader 28 mg loss per 1000 cycles (1 kg load using CS17 wheels)

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

*Assumes concrete compressive strength is greater than 25 N/mm²



** 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.

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Deckcoat EP

An epoxy car park deck coating system providing a colourful surface for intermediate decks of multi-storey structures.

Deckcoat EP cosmetically enhances and reduces noise, making multi-storey 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.



Durable:

Provides excellent resistance to foot and wheeled traffic.



Slip Resistant:

Positively textured anti-slip surface minimises slip and skid risks.



Fire Resistant:

Delivers impressive resistance to the spread of flames.

Standard Colours



Red



Light Blue



Blue



Dark Green



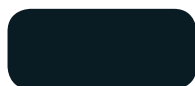
Light Grey



Mid Grey



Dark Grey



Black

Technical Profile

TEMPERATURE RESISTANCE

Tolerant up to 60°C

WATER PERMEABILITY

Karsten Test Nil (Impermeable)

BOND STRENGTH

ASTM D4541 (Pull-Off Test) > 1.5 MPa*

FIRE RESISTANCE

BS 476-3, spread of flame Class 1

SLIP RESISTANCE

TRRL Pendulum Slip Test Dry >40, Wet depends on specification

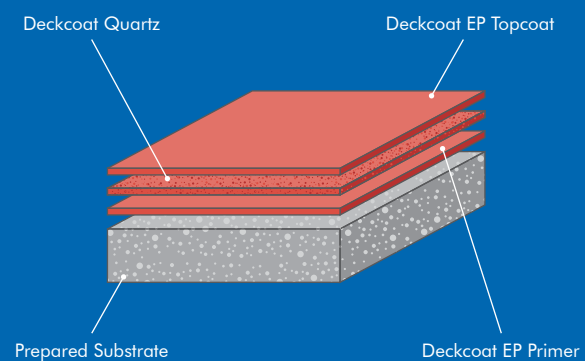
ABRASION RESISTANCE

Taber Abrader 80 mg loss per 1000 cycles (1 kg load using CS10 wheels)

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

*Assumes concrete compressive strength is greater than 25 N/mm²

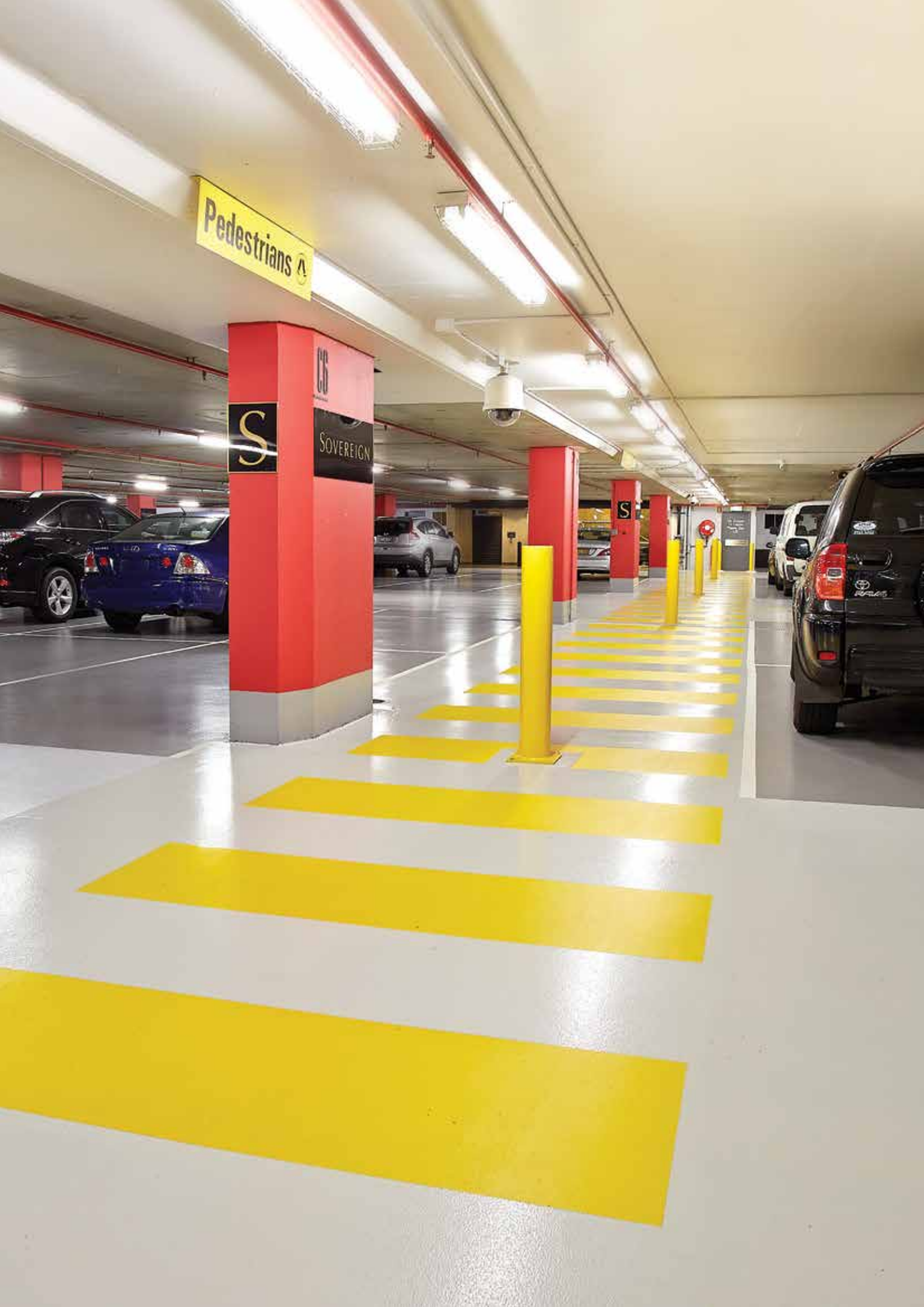


** Cure times at temperatures between 0-30°C can be achieved by altering the quantity of catalyst used. For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.

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

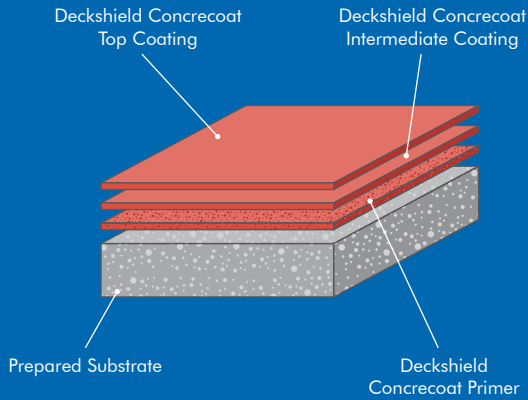
Pedestrians

S
SOVEREIGN



Technical Profile




MOISTURE VAPOUR PERMEABILITY	
Taywood Method	$S_d = 0.5m$
CARBON DIOXIDE DIFFUSION	
Taywood Method	$R(m) = 274$



Deckshield Concrecoat

A high performance coating system to compliment Deckshield traffic deck coating systems.




Deckshield Concrecoat delivers excellent protection against carbonation for interior and exterior walls, columns, soffits and ceilings.

-  Can contribute to LEED points
-  Protects against carbonation
-  Light reflective, attractive finish

Deckshield Putty

A high performance, non-sag epoxy putty and repair mortar.

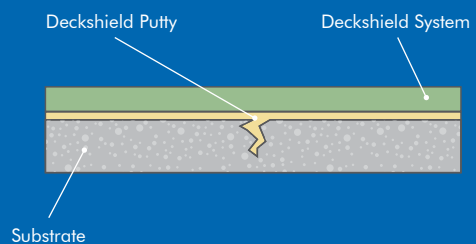
Deckshield Putty is a tough but easily workable compound that can either be applied by a trowel or spatula. Once cured, it will provide a high strength and impact resistant finish, ready to receive suitable finishes.

-  Delivers exceptional strength
-  Zero shrinkage
-  Resin rich and chemical resistant

Technical Profile

COMPRESSIVE STRENGTH
>60 N/mm ²
BOND STRENGTH
>1.5 MPa*
TACK FREE TIME AT 30°C
4 hours
POT LIFE AT 30°C
2 hours

*Assumes concrete compressive strength is greater than 25 N/mm²



Deckshield Accessories

Deckshield Accessories are a range of rubber products that promote safety and protection from vehicles when manoeuvring round high traffic parking facilities.

Primarily for use in multi-storey car parks, Deckshield Accessories can also be applied in loading bays, warehouses and other industrial units to protect against vehicular damage.



Weather & UV resistant



Good water resistance



Suitable for indoor and outdoor use



Abrasion resistant



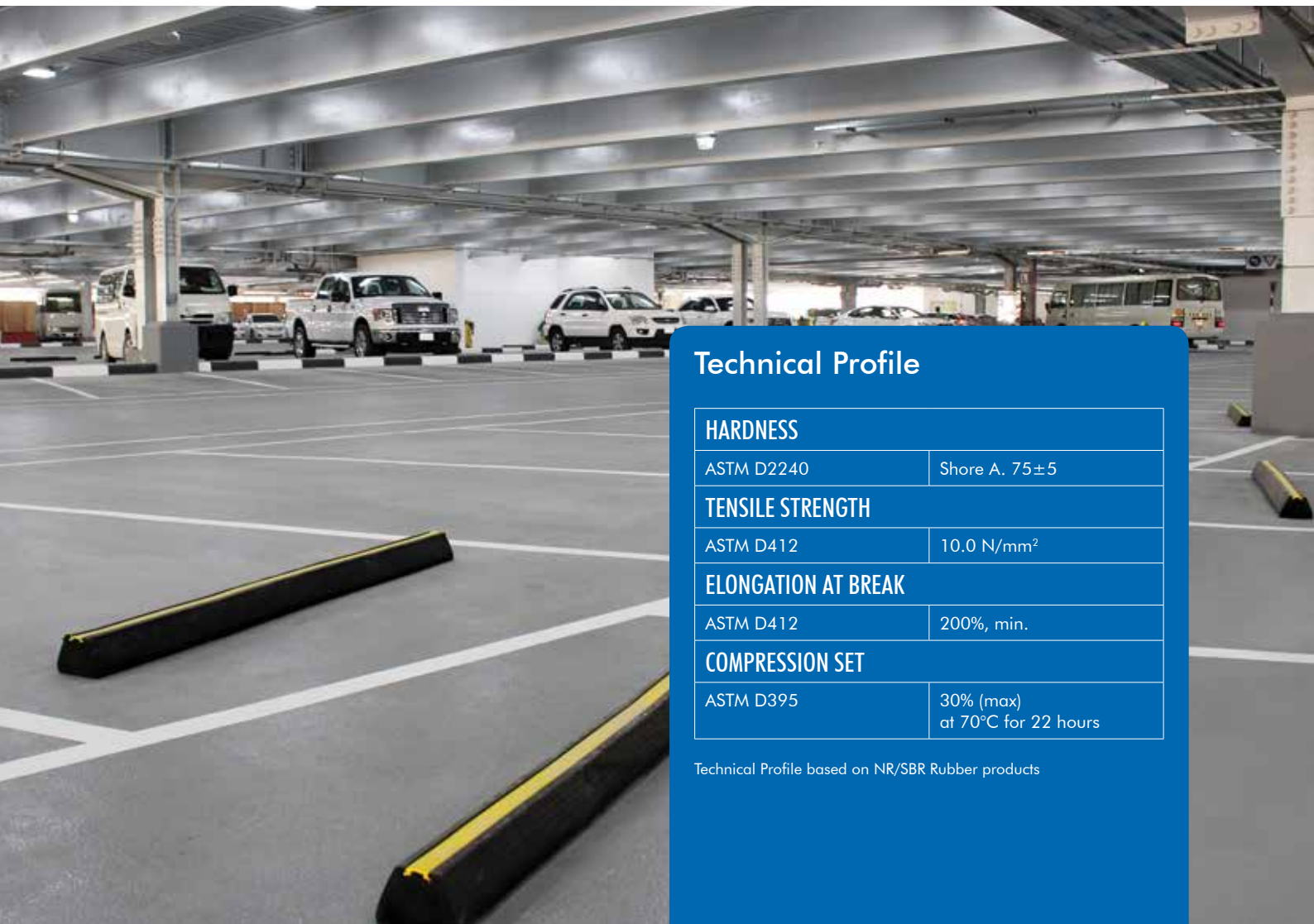
Provides excellent impact resistance

✓ Deckshield Corner Guard

✓ Deckshield Speed Guard

✓ Deckshield Wall Guard

✓ Deckshield Wheel Guard



Technical Profile

HARDNESS

ASTM D2240

Shore A. 75±5

TENSILE STRENGTH

ASTM D412

10.0 N/mm²

ELONGATION AT BREAK

ASTM D412

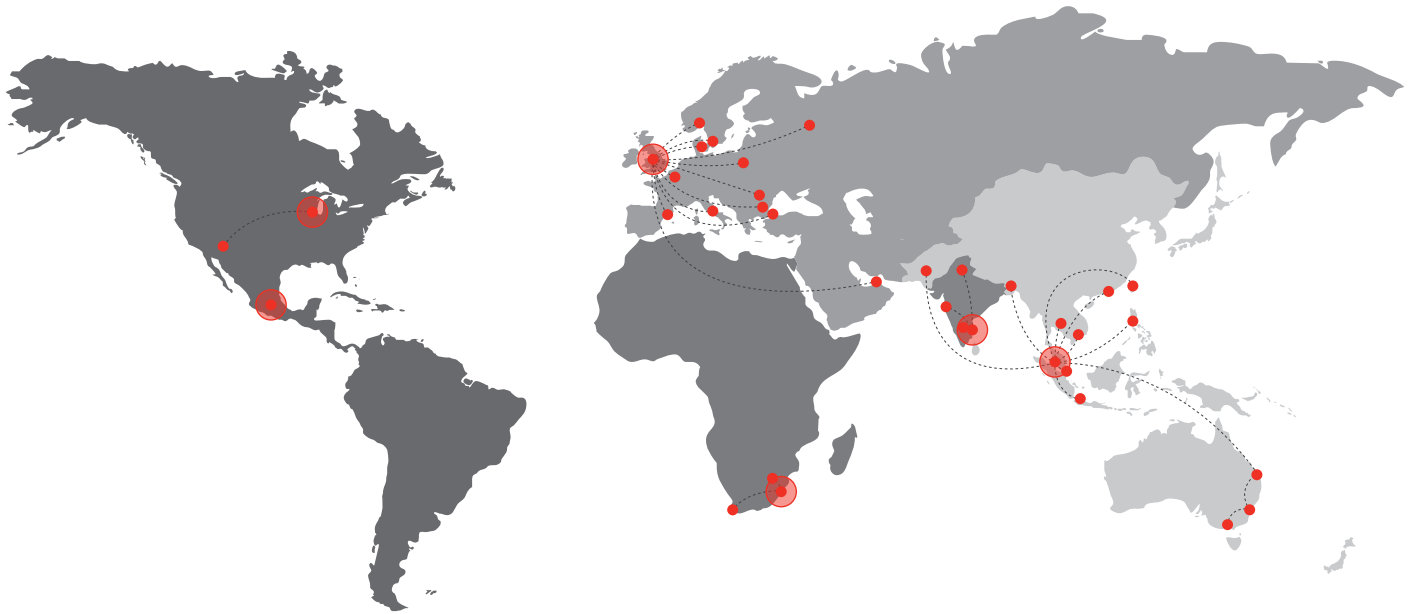
200%, min.

COMPRESSION SET

ASTM D395

30% (max)
at 70°C for 22 hours

Technical Profile based on NR/SBR Rubber products



Flowcrete

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

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