



CAR PARK REFURBISHMENT

- ▶ A wide range of protective repair solutions including traffic deck systems, concrete repair materials, and crack injection resins as well as architectural wall coatings and waterproofing products.

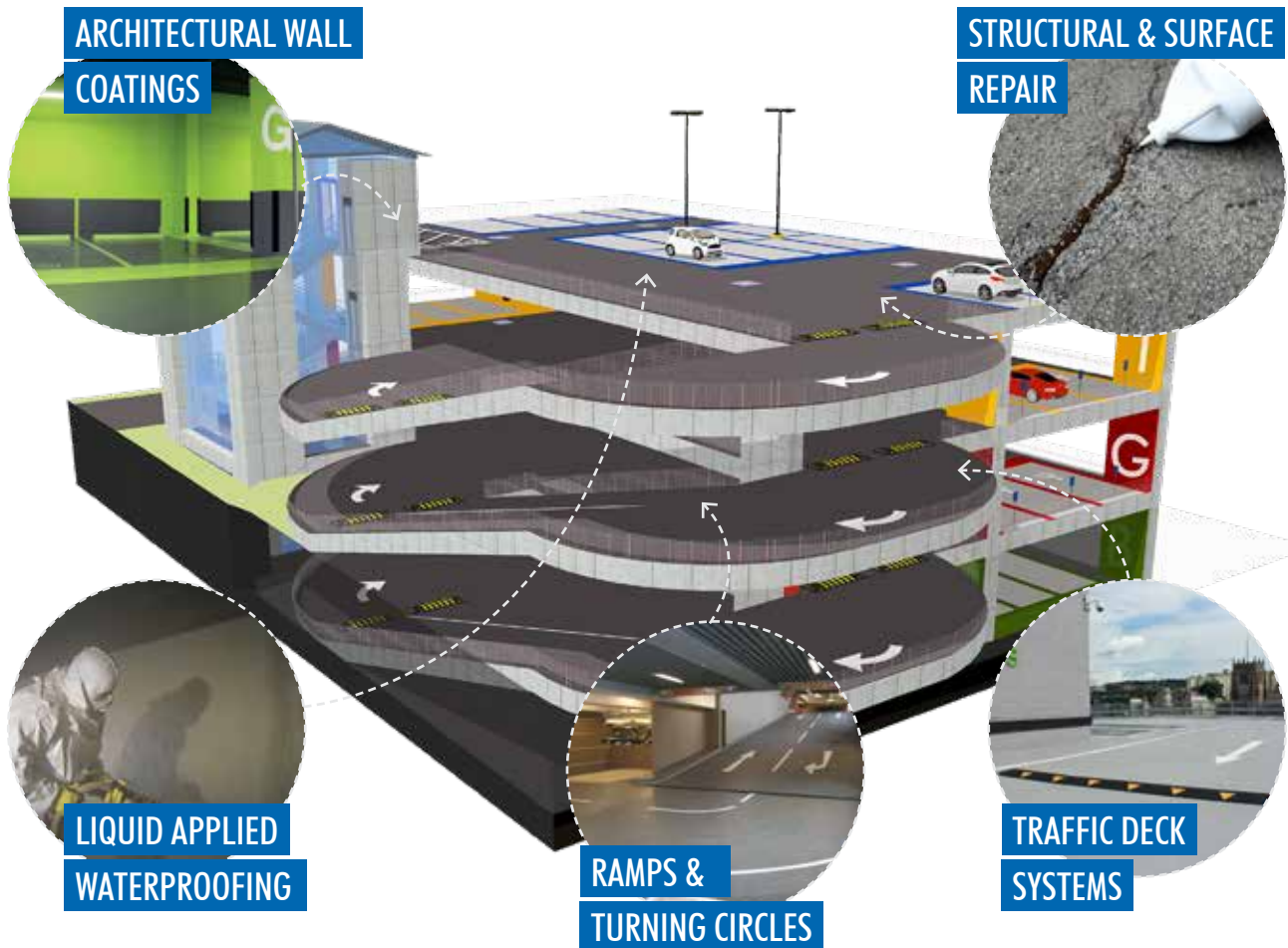
Protect, Repair & Transform Car Parking Facilities

Today, far from the grey utilitarian structures of the past, multi storey car parks are increasingly being recognised as pillars of the urban landscape offering vehicle owners a safe and welcoming environment to park as well as boasting a well-designed layout and high-end build quality.

From basement to roof-top decks, larger and brighter parking bays provide an increased sense of safety and security for vehicle owners alongside clear navigational markings and preferential parking areas for hybrid or electric vehicles.

Flowcrete Africa offers specification professionals working on the design of new-build or refurbishment car park structures a range of deck coating solutions, repair materials and wall coating solutions to choose from. Such car park renovation projects can benefit from utilising Flowcrete Africa's extensive range of repair products to transform old parking areas direct from one supplier, with one point of contact and under one manufacturer's warranty.

A Complete Repair & Protection Package



Refurbishment Solution Products

	Columns	Facades	Joints	Top Decks	Intermediate Decks	Basement Decks	Ramps	Loading Bays	Service Areas	Concrete Slabs	Landscaping Areas	External Drop Off Zones
Traffic Deck Systems												
Deckshield ID					•	•	•					
Deckshield ED				•								
Deckshield Rapide ED					•							
Structural & Surface Repair												
Flowtex HT				•	•	•	•	•	•	•		
EucoRepair V-100	•	•										
Eucocrete Supreme	•	•	•	•	•	•		•				
Thin Top Supreme			•	•	•	•	•	•				
Rapid Set Patch Repair												
Versaspeed					•	•	•	•	•	•		•
Flowtex F1 Repair Mortar					•	•	•	•	•	•		•
Waterproofing												
Eucoflex PU 100				•								
Tamoseal	•			•						•		
Speed Plug				•			•			•		
Vandex BB75				•						•		
Vandex Super			•							•		
Vandex Cemelast										•		
External Wall Sealer												
Flowchem SP3				•	•	•		•	•	•		
Tamms AG400	•	•										
Internal Wall												
Flowseal EPW Wall	•				•	•			•			
Sealants & Joint Fillers												
Eucolastic 1NS / 1SL			•	•		•				•		
Tammsflex NS / Tammsflex SL			•	•								
Euco QWIKjoint UVR			•	•		•	•	•		•		
Crack Injection												
Dural 452 LV				•		•	•			•		
Dural Aqua-Dam						•	•					
Drop Off & Landscaping Areas												
Increte Renovate											•	•
Curing & Sealing Compounds												
Diamond Clear VOX				•						•		
EverClear				•						•	•	

Chemical Resistance

Petrol	✓
Diesel	✓
Antifreeze	✓
Hydraulic Fluid	✓
Chlorides	✓
Battery Acids	✓



Deckshield ID



A Green Label certified polyurethane car park deck coating system for intermediate decks of multi storey parking structures.

Deckshield ID (intermediate deck) cosmetically enhances and reduces noise, making multi storey car parks brighter, safer environments for vehicle owners and pedestrians.



UV Resistant:

100% UV stable formulation available to prevent the floor from yellowing.



Slip Resistant:

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



Chemical Resistant:

Protects against diesel, fuel, antifreeze, hydraulic fluid, chlorides and battery acid.



Noise Reducing:

Enhanced traction underfoot minimises unpleasant noise from tyre squeal.



Attractive:

Brightens up dull, dark car parking structures.

Standard Colours



Beige



Yellow



Signal Red



Forest Green



Tile Red



Dark Blue



Light Grey



Mid Grey



Dark Grey

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

Technical Profile

TEMPERATURE RESISTANCE

Softens over 70°C, hardens on cooling

WATER PERMEABILITY

Karsten Test Nil (Impermeable)

BOND STRENGTH

> 1.5 MPa*

FIRE RESISTANCE

BS476-3 Designated EXT.FAA

SLIP RESISTANCE

TRRL Pendulum Slip Test
Dry >40
Wet >40
Low slip potential

ABRASION RESISTANCE

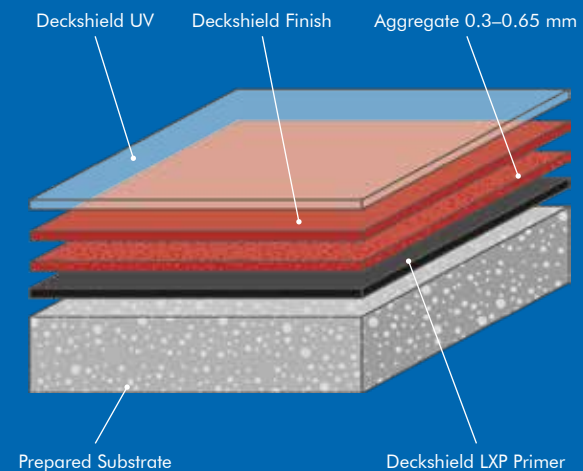
Taber Abrader (1 kg load using H-22 wheels) 40 mg loss per 1000 cycles

UV LIGHT RESISTANCE

Excellent (include Deckshield UV WB topcoat)

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	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.



032-089
Environmentally Preferred
Coating

Deckshield ED

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

Deckshield ED (exterior deck) cosmetically enhances and reduces noise, making multi storey car parks brighter, safer environments for vehicle owners and pedestrians.



UV Resistant:

100% UV stable formulation available to prevent the floor from yellowing.



Slip Resistant:

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



Chemical Resistant:

Protects against diesel, fuel, antifreeze, hydraulic fluid, chlorides and battery acid.



Noise Reducing:

Enhanced traction underfoot minimises unpleasant noise from tyre squeal.



Attractive:

Brightens up dull, dark car parking structures.

Standard Colours



Beige



Yellow



Signal Red



Forest Green



Tile Red



Dark Blue



Light Grey



Mid Grey



Dark Grey

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

BS476-3 Designated EXT.FAA

SLIP RESISTANCE

TRRL Pendulum Slip Test Dry >40
Wet >40
Low slip potential

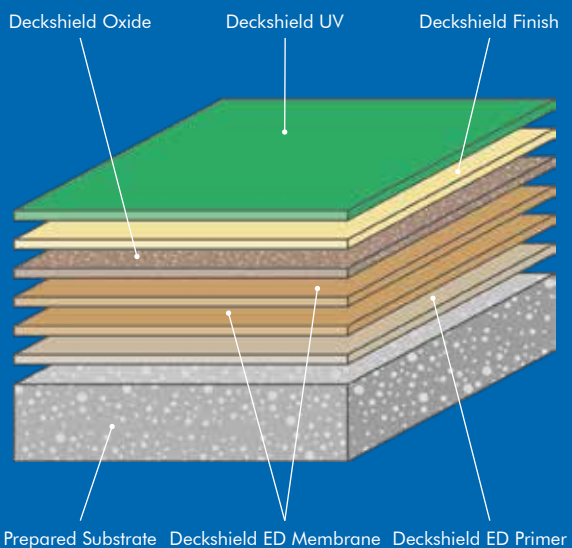
ABRASION RESISTANCE

Taber Abrader (1kg load using H-22 wheels) 40 mg loss per 1000 cycles

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	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 Rapide ED

A fast cure MMA deck coating system for use on external or exposed decks of multi-story parking structures.

Deckshield Rapide is a fast curing coating providing crack bridging for use over exposed decks. It is suitable for refurbishment of existing car parks or new builds.



Fast Cure:

Accelerates cure time, providing a fully operational surface in just 60 minutes.



Slip Resistant:

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



Chemical Resistant:

Protects against diesel, fuel, antifreeze, hydraulic fluid, chlorides and battery acid.



Noise Reducing:

Enhanced traction underfoot minimises unpleasant noise from tyre squeal.



UV Resistant:

100% UV stable formulation available to prevent the floor from yellowing.

Standard Colours



Beige



Yellow



Signal Red



Forest Green



Tile Red



Dark Blue



Light Grey



Mid Grey



Dark Grey

Technical Profile

CAPILLARY ABSORPTION & WATER PERMEABILITY

EN 1062-3	w <0.1 kg/m ² x h0.5
-----------	---------------------------------

RESISTANCE TO CHLORIDE IONS

DOT BD47/94: Appendix B, Method B4, 2(d)	No chloride ion penetration after 28 days
--	---

IMPACT RESISTANCE

EN ISO 6272-1	Class II: ≤ 10 Nm
---------------	-------------------

CRACK BRIDGING

EN 1062-7 Method A, Table 6	Class A3 (-20°C)
-----------------------------	------------------

SLIP / SKID RESISTANCE

EN 13036-4	Class III: >55 units wet
------------	--------------------------

ABRASION RESISTANCE

EN ISO 5470-1 (1 kg load using H-22 wheels)	<3,000 mg mg loss per 1000 cycles
---	-----------------------------------

ARTIFICIAL WEATHERING

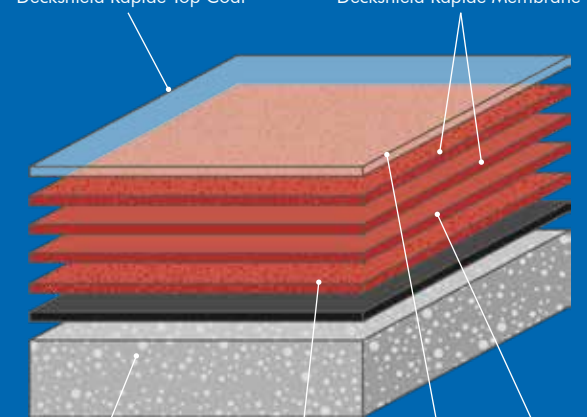
EN 1062-11:2002	No blistering, no cracking and no flaking after 2,000 hours of accelerated UV exposure
-----------------	--

SPEED OF CURE**	10°C	20°C	30°C
Light Traffic	60 min	45 min	45 min
Full Traffic	90 min	60 min	60 min
Full Chemical Cure	120 min	90 min	90 min

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

Deckshield Rapide Top Coat

Deckshield Rapide Membrane



Prepared Substrate

Flowfast Damp Primer

Alox Scatter

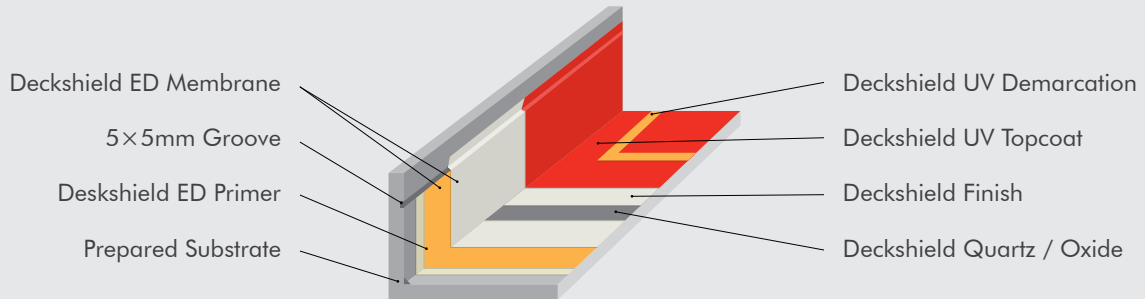
Scatter 1

** 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.

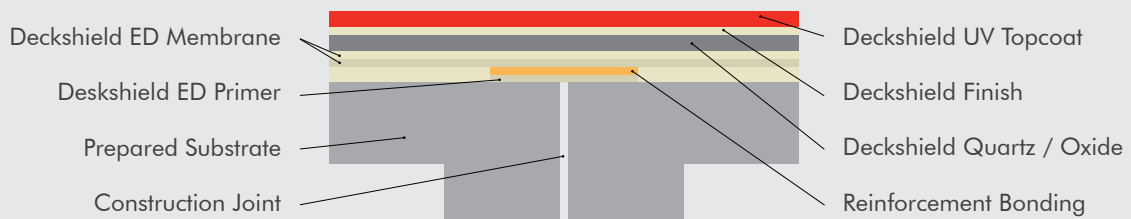
The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.

Typical Construction Details

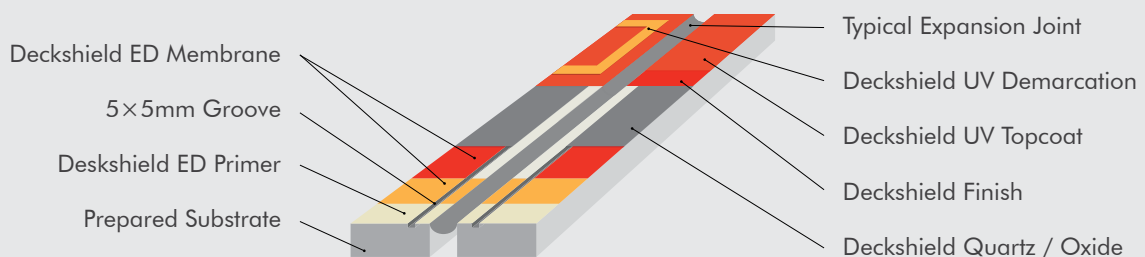
Typical Upstand (Deckshield ED)



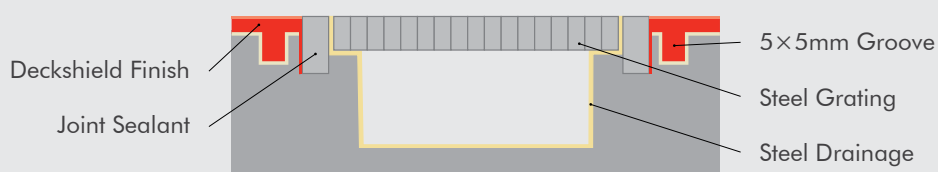
Typical Construction Joint (Deckshield ED)



Typical Expansion Joint (Deckshield ED)



Deckshield Drainage Detail





Car Park Refurbishment

Whether your parking facility is precast, cast-in-place or post-tensioned construction, Flowcrete offers complete solutions for concrete repair and protection.

As unique as your repair or project demand may be, our systems will protect your investment from the expensive and damaging effects caused by a multitude of external aggressors.

New construction and repair applications include traffic deck coatings, penetrants and overlays, stairwell repair and coatings, joint sealants, surface repair and corrosion protection in commercial, retail, institutional and residential parking facilities.

Potential Causes of Damage to Car Parking Structures

- ✓ Water leakage through cracks and joints
- ✓ Chloride ingress
- ✓ Pollution
- ✓ Freeze thaw cycling
- ✓ Wearing from repetitive traffic patterns
- ✓ Typical mechanical movement that causes spalling, reinforcement corrosion and other distress

Traffic Coating Systems

Deckshield ID

A flexible solvent free polyurethane car park coating system for intermediate decks of multi-storey car parks. Cosmetically enhances multi-story parking environments and ensures safety underfoot with enhanced traction.

Deckshield ED

A solvent free polyurethane flexible car park coating system for use over exposed decks of multi-storey car parks. Cosmetically enhances and reduces noise, making uncovered car park decks brighter, safer environments to visit.

Deckshield Rapide ED

A colourful methyl methacrylate car park deck coating system. Fast curing to provide crack bridging for use over exposed decks on multi-story car parks. It is suitable for refurbishment of existing car parks or new builds.

Structural & Surface Repair

Flowtex HT

A hard-wearing, epoxy mortar screeding compound that is hand trowelled to 6mm in thickness. Best suited for use in heavy-duty industrial environments and dry process areas where the floor is subject to heavy traffic, impact and chemical spills.

Versaspeed

A versatile, single-component, rapid-setting repair mortar for horizontal, and form and pour repair projects. Low shrinkage, high early strength material. Repaired areas may be open to standard tire traffic after 2 hours, and a traffic coating may be applied after 4 hours.

Flowtex F1 Repair Mortar

A three component epoxy mortar/screed. Can be used as a coving mortar, as a repair material to damaged floors, joint rises, or as a thin layer topping. Can be feathered down to a minimum thickness of 1 mm, maximum thickness 40 mm.

Waterproofing

Eucoflex PU 100

A high build, water based, liquid applied PU elastomeric waterproofing membrane that has excellent cold flexibility, elongation and recovery properties. Can be used to refurbish old waterproofing systems including torch-on waterproofing membranes.

Tamoseal

A cement-based, polymer-modified material designed to waterproof concrete and masonry. When mixed with AKKRO-7T or Flex-con acrylic admixture, it becomes suitable to seal vertical and light duty horizontal surfaces.

Speed Plug

A is a rapid-setting hydraulic cement compound used to instantly stop running water or seepage in masonry or concrete. Ready to use and requires only the addition of water before plugging and sealing active leaks. Available in a standard 1–3 minute set time formula, as well as a faster setting 45 second version and a slower setting 3–5 minute formulation.

Vandex BB75

An engineered surface waterproof coating with hydrophobic properties that is NSF/ANSI Standard 61 approved for use with potable water. Vandex BB 75 can be brush or spray applied to either the positive or negative side of a concrete or masonry substrate in need of waterproofing.

Vandex Super

A waterproof treatment that become an integral part of concrete through a crystallization process. Once the cementitious carrier is applied to either the positive or negative side of the substrate, crystal growth occurs, blocking the capillaries and minor shrinkage cracks within the concrete to prevent any further water ingress.

Vandex Cemelast

An elastic surface waterproof coating with hydrophobic properties. Areas that are subject to cracking and minor movement can be easily waterproofed with Vandex Cemelast.

Internal Wall

Flowseal EPW

A pigmented, water-based epoxy wall sealer that brightens dull concrete surfaces. Flowseal EPW Wall provides a solvent free protective coating for the concrete that acts as a barrier to the ingress of chlorides and carbon dioxide.

External Wall

Flowchem SP3

A colourless chemical hardening formulation which penetrates concrete surfaces to densify, harden, and boost their chemical resistance. Can penetrate deep into the concrete and has a life expectancy of up to 20 years.

Tamms AG400

A two component, solvent based aliphatic urethane coating system for indoor and outdoor use that has excellent anti-graffiti properties.

Sealants & Joint Fillers

Eucolastic 1NS / 1SL

Extremely durable single-component, polyurethane hybrid sealants for dynamic joints, offering persistent adhesion once fully cured and provides unequalled performance against stand-alone polyurethane sealants.

Tammsflex NS / Tammsflex SL

Two-part, elastomeric, polysulphide caulking and sealing compounds that will withstand repeated expansion and contraction and remain resilient through daily and seasonal cyclic changes in temperature. Excellent chemical, solvent and water resistance and will withstand joint movement of up to +/-25%.

Euco QWIKjoint UVR

A UV resistant polyurea floor joint filler which is primarily used for filling construction and control joints in concrete floors. Supports and protects joint edges from heavy loads and wheel traffic, reducing spalling of the joint edges.

Crack Injection

Dural 452 LV

A two-component, 100% solids, moisture insensitive, high strength epoxy adhesive and binder for numerous applications. This high modulus, low viscosity epoxy resin is the perfect solution for general bonding applications and for injecting cracks in concrete and a variety of other substrates.

Dural Aqua-Dam

A hydrophobic polyurethane grout that is injected in concrete and other sound substrates to stop water from entering into occupied or unwanted places. Dural Aqua-Dam forms a water tight seal within the substrate that remains even after the water has subsided.

Drop Off & Landscaping Areas

Increte Renovate

A two-component, polymer-modified cementitious coating used to resurface concrete. Renovate is designed for application by roller or pump-sprayer, and it is ideal for revitalising stamped concrete. The original stamped pattern of the concrete is not affected by Renovate.

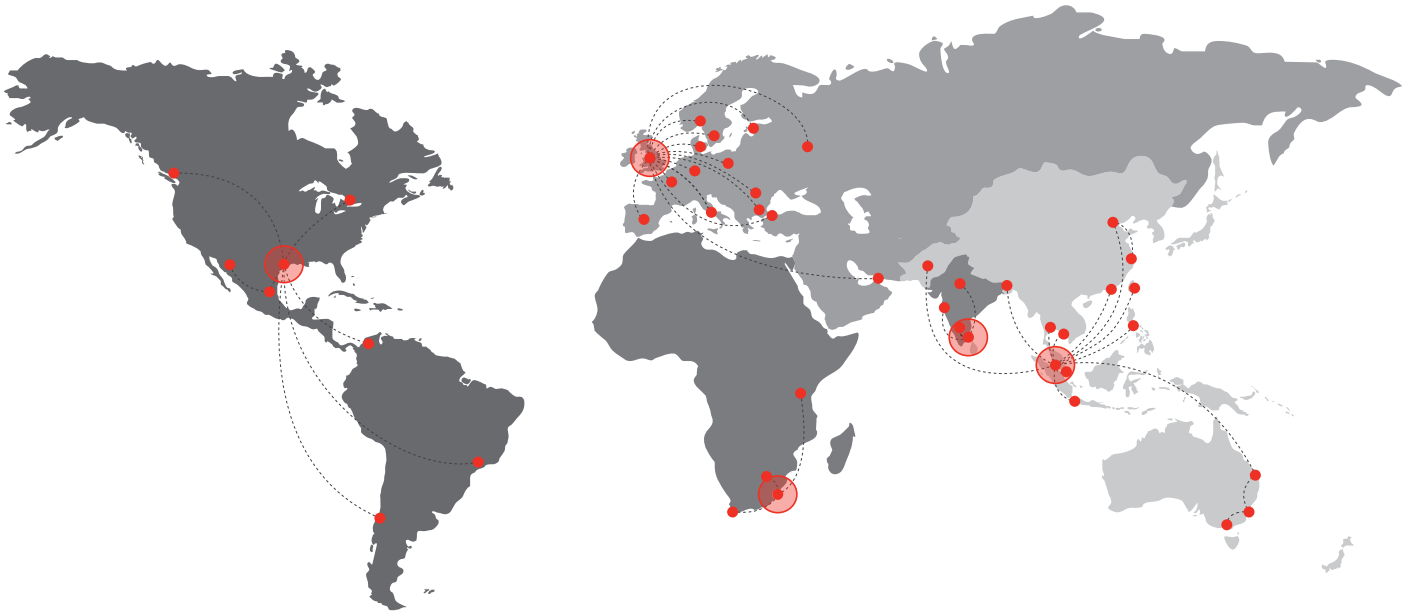
Curing & Sealing Compounds

Diamond Clear VOX

A water based acrylic polymer blend curing and sealing compound for freshly placed concrete.

EverClear

A pure acrylic sealer that protects and enhances the appearance of cured concrete with a clear, non-yellowing seal that is harder and more durable than standard cure and seal products. EverClear is specially formulated to enhance the colour of stamped concrete, exposed aggregate finishes, and colored concrete pavers.



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
-------	------------------	---------------------

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

*Whilst every care has been taken to ensure that the information included in this document was accurate at the time of printing, Flowcrete reserves the right to change product specifications at any time without prior notice. The photographs and colours reproduced in this publication are within the constraints of the printing process and are not to be used for matching purposes. All photographs are used for approximate representation only and may not show the actual products on offer. E&OE.