

## Flowsports ED (2.5mm)

Flowsports ED is a pigmented, low VOC, solvent free, slip resistant, flexible, crack-bridging, waterproof polyurethane deck coating.

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



### UV Light Stable:

100% UV light stable and resistant, non yellowing.



### Crack-Bridging:

Conforms to UNE-EN 1062-7:2004 Method B - B.3.2



### Chemical Resistant:

Excellent resistance to engine oil, battery acid, fuel and hydraulic fluid.



### Waterproof:

Water resistant and waterproof trafficable deck coating system.

## Technical Profile

### FIRE RESISTANCE

EN 13501-1	B <sub>FL</sub> - s1
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### SLIP RESISTANCE

Method described in AS4586-2013	Dry & Wet Rating is dependant on specification (in accordance with AS4586-2013)
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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 or dry) - please contact our Technical Advisors for further details

### TEMPERATURE RESISTANCE

Softens over 70°C	Hardens on Cooling
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### WATER PERMEABILITY

Karsten Test	Nil (Impermeable)
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### RESISTANCE TO CHLORIDE IONS

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

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

Taber Abrader	300mg loss per 1000 cycles 1kg load using CS17 wheels
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### CRACK-BRIDGING

BS EN 1062-7 Method B1	0.5mm
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### UV LIGHT RESISTANT

Excellent - Non Yellowing

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

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

\*Assume concrete or substrate is a minimum of 25 N/mm<sup>2</sup>.



Light N Grey    Steel Grey    Charcoal    Tile Red



Light Green    Dark Green    Steel Blue    Mid Blue

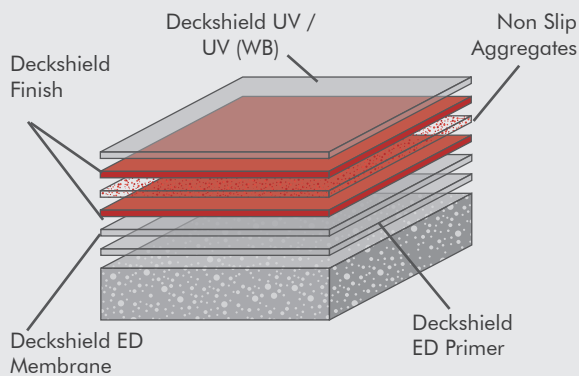
The applied colours may differ from the examples shown.  
For a full colour chart and samples, contact your local Flowcrete office.

## Model Specification

System	Flowsports ED
Finish	Gloss
Thickness	0.35mm
Manufacturer	Flowcrete Australia Pty Ltd
Contact	+ 61 7 3205 7115

Preparatory work and application in accordance with manufacturer's instructions.

## System Design



## Products Included In This System

Layer 1	Deckshield ED Primer
Layer 2	Deckshield ED Primer *2nd Coat for Porous Surface Only
Layer 3	Deckshield ED Membrane
Layer 4	Deckshield Finish
	Non Slip Aggregates
Layer 5	Deckshield Finish
Layer 6	Deckshield UV / UV (WB)

## Coving

Coving can form an integral part of the flooring system. It creates a sealed finish between the floor and wall joint. Please refer to Flowtex F1 Coving Mortar for further information.

## Substrate Requirements

Concrete or screed substrate should be a minimum of 25 N/mm<sup>2</sup>, free from laitance,

dust and other contamination. Substrate should be dry to 75% RH as per ASTM F2170 (AS1884:2012).

## Installation Service

The installation should be carried out by a qualified contractor with a documented quality assurance scheme. For details of our recommended contractors, contact your local Flowcrete office. Detailed application instructions are available upon request.

## Environmental Considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs and maintenance. Environmental and health considerations are controlled during manufacture of the products by Flowcrete staff.

## Aftercare, Cleaning & Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent. Please refer to Flowcrete's Cleaning & Maintenance Guide for further information.

## Warranty

Flowcrete products are guaranteed against defective materials and manufacture and are sold subject to our standard 'Warranty, Terms and Conditions of Sale', copies of which can be obtained on request. Warranty does not cover suitability, fit for purpose or any consequential or related damages. Please review warranty in detail before installing the products.

# Method Statement

System	Flowsports ED
Specification	2.5mm Non Slip Gloss

This specification assumes a concrete compressive strength greater than 25 N/mm<sup>2</sup>, application and curing temperatures of 15-35°C, and concrete moisture content less than 75% RH.

If moisture content is above 75% RH, please contact Flowcrete Australia.

This specification must be read in conjunction with relevant product technical data sheets and the application of all materials is to be strictly in accordance with manufacturer's instructions.

Manufacturer	Flowcrete Australia Pty Ltd
Address	Unit 2, 41 Deakin Street
Suburb	Brendale
State	QLD
Postcode	4500
Telephone	+61 7 3205 7115
Email	australia@flowcrete.com

## Important Note

The recommended substrate temperature for application is 15-35°C. Should the application temperature exceed these parameters and/or the presence of UV Index greater than 8, the overcoating window must be adjusted.

Flowsports ED should not be applied to substrates which have an existing waterproof membrane.

Please contact Flowcrete Technical Department.

## Moisture Testing

Moisture Testing (in accordance with AS4654.1-2012) Hygrometer readings must be taken and recorded so that the correct system can be selected.

Concrete curing compounds and overtrowelled concrete will extend the time taken for the hygrometer to reach equilibrium. Sub-floor measurement readings of up to 95% RH can be accommodated with the system.

NOTE: please ensure enough time is provided to allow the test cell to reach equilibration (this ensures that lower level moisture is accounted for).

Constructions with thickness greater than 200 mm can take considerably longer than one week before moisture equilibrium is established. To prevent edge effects with these very thick constructions, the area of 1m<sup>2</sup> surrounding the instrument should be covered with an impervious sheet material during the test.

To minimize the time required for the instrument to be in a position on the floor, the following technique can be applied. Cover the positions to be measured with impervious mats (e.g. polyethylene sheet, rubber mats) not less than 1m x 1m, taped to the floor at their edges. Leave in position for at least 3 days in the case of screeds and 7 days in the case of thick constructions. After removing the mat, immediately seal the instrument to the centre of the covered area. Experience has shown moisture equilibrium is usually attained within 2 h to 4 h of placing the instrument but should be left overnight for confirmation.

Alternatively, Flowcrete accept the use of the GE Protimeter Sub-Surface kit, which utilises humidity sleeves for measuring the equilibrium relative humidity (ERH) readings of solid floors and walls. They are inserted into pre-drilled holes to create an air pocket for measuring with a Protimeter Hygrostick.



Slow Speed Drill with Helical Mixer Head



Pin Rake

## Outline for Installation

<b>Mechanically Prepare Substrate</b>	
<b>Apply Deckshield ED Primer</b>	@ 0.25kg/m <sup>2</sup>
<b>Apply Deckshield ED Primer *2nd</b>	@ 0.25kg/m <sup>2</sup>
<b>Apply Deckshield ED Membrane</b>	@ 1.2kg/m <sup>2</sup>
<b>Apply Deckshield Finish</b>	@ 0.3kg/m <sup>2</sup> to 0.35kg/m <sup>2</sup>
<b>24 Mesh White Aluminium Oxide</b>	@ 0.4kg/m <sup>2</sup>
<b>Apply Deckshield Finish</b>	@ 0.3kg/m <sup>2</sup> to 0.35kg/m <sup>2</sup>
<b>Apply Deckshield UV / UV (WB)</b>	@ 0.15kg/m <sup>2</sup>



Flat or Notched Steel Trowel



Spike Roller

## Storage

12 months in an unopened packaging stored at a temperatures of 5-40°C.

Protect from frost, weather, moisture and contaminant ingress.

## Application Equipment

The use of correct application equipment is critical as incorrect application tools can result in poor finishing and incorrect material consumption. Always test the application equipment prior to commencing work.

The following equipment is recommended for this application.



10-12mm Nap Roller Cover - Lambswool  
\*Rolana or Equivalent



Spike Shoes

## Safety Precautions

Wear appropriate Personal Protective Equipment (PPE) including masks, gloves, eye protection and protective clothing during mixing and application. Ensure the working area is well ventilated and follow the appropriate Health and Safety guidelines applicable to the location where the application is undertaken.

## Material Set-Up

Before commencing work ensure that your material is set-up by separating all components (e.g. Base A, Hardener B, Filler C etc.) to ensure that all material is correct. Check product labels and ensure there are equal amounts of product.

## Site Set-Up

Before commencing work ensure that your site is set-up. Mark the floor according to the specification with masking tape or similar to clearly identify what area (m<sup>2</sup>) each unit will cover. If this is not achieved (greater or less consumption than the specified amount) immediately stop and contact Flowcrete.

## Surface Preparation

Surface preparation is to be completed by totally enclosed (light shot blasting) or coarse diamond grinding. All cementitious laitance must be removed to expose a sound substrate and provide a dry, dust free, open textured surface. All hard to reach areas and areas around the perimeter must be prepared using hand held preparation equipment.

Any damaged areas must be repaired with Flowtex F1 mortar. Consult Flowcrete prior to using an alternative repair mortar. Any rough or uneven areas must be made smooth with Flowcoat SC (Universal Resin Base A, Universal Hardener B, Sand/Flour). Consult Flowcrete prior to using an alternative epoxy scratch coat.

## Application of Reinforcement Banding

1. Before applying the Flowsports ED system, reinforce construction joints and cracks as follows:

Apply a band of Deckshield ED Primer 50 mm wider than the reinforcing scrim. Allow to cure.

Apply a band of Deckshield ED Membrane. While still wet, apply Deckshield Scrim (Woven Glass Fibre XR100), immediately followed by a second layer of Deckshield ED Membrane. Allow to cure.

2. Reinforce all horizontal and vertical junctions and gullies etc. as follows:

Apply a band of Deckshield ED Primer and allow to cure.

Apply a band of Deckshield ED Membrane and allow to cure.

Note: Apply Membrane in two layers on vertical surfaces to prevent slumping.

## Application of Deckshield ED Primer

The substrate must be surface dry before the application of Deckshield ED Primer. Deckshield ED Primer must be applied within 24 hours following the application of Flowprime.

### 1. Mixing

Pack components are pre-weighed for optimum performance. We recommend that you do not split or proportion packs, however, if required this must be completed by weight using digital scales.

Stir Base A to re-disperse any settlement. Add Hardener B to the Base A container, and drain thoroughly.

Mix with a slow speed drill and helical spinner head for 90 seconds, taking care not to entrain air. Add Filler C to Base A container and mix for further 45 seconds until uniform. Add between 2 - 7% (depending on conditions) Xylene and mix for a further 30 seconds.

### 2. Application

Immediately after mixing, apply the Deckshield ED Primer by squeegee and/or roller. Allow to cure.

NOTE: The Deckshield ED Primer should be applied **either side** of the reinforcement banding, **not** over it.

## Application of 2nd Coat of Deckshield ED Primer \*If required

The substrate must be surface dry before the application of Deckshield ED Primer. The second coat of Deckshield ED Primer must be applied within 24 hours following the first application of Deckshield ED Primer.

Mix and apply as per the first coat.

## Application of Deckshield ED Membrane

The substrate must be surface dry before the application of Deckshield ED Membrane. Deckshield ED Membrane must be applied within 24 hours following the application of Deckshield ED Primer.

### 1. Mixing

Pack components are pre-weighed for optimum performance. We recommend that you do not split or proportion packs, however, if required this must be completed by weight using digital scales.

Stir Base A to re-disperse any settlement. Add Hardener B to the Base A container, and drain thoroughly. Mix with a slow speed drill and helical spinner head for 90 seconds, taking care not to entrain air.

### 2. Application

Immediately after mixing, apply the Deckshield ED Membrane with pin rake and/or notched or flat steel trowel to the required thickness. Immediately spike roll the surface to assist with levelling and to release any entrained air. Allow to cure.

## Application of Deckshield Finish

The substrate must be surface dry before the application of Deckshield Finish. Deckshield Finish must be applied within 24 hours following the application of Deckshield ED Membrane.

### 1. Mixing

Pack components are pre-weighed for optimum performance. We recommend that you do not split or proportion packs, however, if required this must be completed by weight using digital scales.

Stir Base A to re-disperse any settlement. Add Pigment (if supplied separately) and mix until uniform. Add Hardener B to the Base A container, and drain thoroughly. Mix with a slow speed drill and helical spinner head for 90 seconds, taking care not to entrain air. Add between 2 - 7% (depending on conditions) Xylene and mix for a further 30 seconds.

### 2. Application

Immediately after mixing, apply the Deckshield Finish by squeegee and roller. Whilst the Deckshield Finish is still wet, broadcast with 24 Mesh White Aluminium Oxide ensuring an even distribution is achieved as per the specified coverage rate. Allow to cure.

## Application of 2nd Coat of Deckshield Finish

The substrate must be surface dry before the application of the 2nd coat of Deckshield Finish. Deckshield Finish must be applied within 24 hours following the application of the first coat of Deckshield Finish.

### 1. Mixing

Pack components are pre-weighed for optimum performance. We recommend that you do not split or proportion packs, however, if required this must be completed by weight using digital scales.

Stir Base A to re-disperse any settlement. Add Pigment (if supplied separately) and mix until uniform. Add Hardener B to the Base A container, and drain thoroughly. Mix with a slow speed drill and helical spinner head for 90 seconds, taking care not to entrain air. Add between 2 - 7% (depending on conditions) Xylene and mix for a further 30 seconds.

### 2. Application

Immediately after mixing, apply the Deckshield Finish by squeegee and roller. Allow to cure.

## Application of Deckshield UV / UV (WB)

The substrate must be surface dry before the application of Deckshield UV / UV (WB). Deckshield UV / UV (WB) must be applied within 24 hours following the application of Deckshield Finish.

### 1. Mixing

Pack components are pre-weighed for optimum performance. We recommend that you do not split or proportion packs, however, if required this must be completed by weight using digital scales.

Stir Base A to re-disperse any settlement. Add Pigment (if supplied separately) and mix until uniform. Add Hardener B to the Base A container, and drain thoroughly. Mix with a slow speed drill and helical spinner head for 90 seconds, taking care not to entrain air.

### 2. Application

Immediately after mixing, apply the Deckshield UV / UV (WB) by roller only. Allow to cure.

## Trafficking

Allow to cure for a minimum of 24 hours at temperatures no less than 10°C before light trafficking.

## Note

When printed or saved externally, this document is uncontrolled and therefore may not be the latest version.

Any recommendation or suggestion relating to the use of the products made by Flowcrete Australia Pty Ltd., whether in its technical literature, or in response to a specific enquiry, or otherwise, is based upon data believed to be reliable, however the products and information are intended for use by Customers having requisite skill and know-how in the industry and therefore it is for the Customer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that the Customer has done so at its sole discretion and risk.

## Additional Notes

1. Maximum overcoat time is 24 hours.
2. The product is fully hardened after 5–7 days.
3. The applied colours may differ from the examples shown.
4. Light and vibrant colours may require additional coats to achieve desired results.
5. Flowcrete assumes no responsibility for the application of incorrect colour.
6. It is recommended that top coat colours match base coat colours to achieve desired results.
7. This system is not UV stable and will discolour unless otherwise stated.
8. Do not cover or wash within the first 24 hours of curing.
9. This system should have no contact with water for 5 days at 22°C or blooming may occur.
10. This system should be installed at 3°C above the dew point.
11. A low temperature/high humidity environment can cause blooming issues.
12. Please ensure application temperature and RH limits are followed. Wind or strong airflow may cause quick curing and drying of the system.
13. Ensure wind or strong airflow is eliminated during application, however adequate safety ventilation should still be followed.
14. Direct heat during application of the system can cause flash curing and potential delamination. Ensure you do not apply this system to substrates with temperatures exceeding 35°C.