

Deckshield ID Rapide (3mm)

Deckshield ID Rapide is a flexible MMA car park deck coating providing a colourful, durable and rapid curing finish.

Typically used to enhance and protect multi-storey car parks and suspended floors.



Rapid Curing:

Fast track application, dramatically reducing program time.



Low VOC:

Compliant with Green Star Design & As Built V1.2-13.1.1B, Green Star Interiors V1.2-12.1.1B



Low Maintenance:

Can be overcoated without mechanical preparation.



Resistant:

Provides fire, slip, abrasion, UV and chemical resistance.

Technical Profile

FIRE RESISTANCE - AS/ISO 9239.1

CHF Value 2.9 kW/m²

Smoke Value 26% (Mean)

SLIP RESISTANCE*

Method described in AS4586-2013 >P5 (Based on 24 Mesh White Aluminium Oxide Aggregate)

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) > 1.5MPa

ABRASION RESISTANCE

Taber Abrader 300mg loss per 1000 cycles 1kg load using CS17 wheels

CHEMICAL RESISTANT

Contact Technical Department. Resistant to petrol, diesel, antifreeze, hydraulic fluid, chlorides and battery acids.

VOC CONTENT

ASTM D2369-10: 2015 < 140 g/L

SPEED OF CURE***

PER COAT

Walk On 1 hr

Vehicular Traffic 2-3 hrs

Full Chemical Cure 2-3 hrs

*The specific slip test rating (P0-P5 range) noted in this document is based on the system design, products listed, coverage rates and specific aggregate outlined in this document. This slip test rating can and will change if the standard specification details or installation methods are altered in any way. The specific slip rating (P0-P5 range) noted in this document is based on 96 Rubber slide testing on level non-inclined surfaces. Applicators should refer to methods outlined in AS4586-2013 and SA HB 198:2014. **Assume concrete or substrate is a minimum of 25 N/mm². ***These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.



Terracotta



Serpentine



Bluebell



Light Grey Blue



Pastel Grey



Light Grey



Bridge Grey



Dark Grey



Straw



Mushroom

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

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/mm², free from laitance, dust and other contamination. Substrate should be dry to 90% RH as per ASTM F2170 (AS1884:2012). Slab on ground concrete must have an effective damp proof membrane in place.

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.

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.

Important

This specification assumes a concrete compressive strength greater than 25 N/mm², application and curing temperatures of 0-30°C, and concrete moisture content less than 90% RH. If moisture content is above 90% RH, please contact Flowcrete Australia.

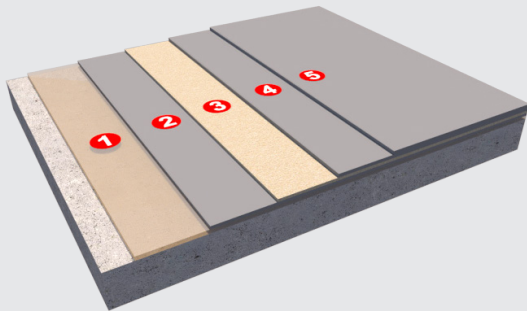
This specification must be read in conjunction with relevant product technical data sheets and the application of all materials is to be strictly in accordance with manufacturer's instructions.

Model Specification

| | |
|---------------------|------------------------------|
| System | Deckshield ID Rapide |
| Finish | Satin |
| Thickness | 3mm |
| Manufacturer | Tremco CPG 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 | Flowfast Primer |
| Layer 2 | Flowfast Flexible Binder/Silica Flour 100G |
| Layer 3 | Non Slip Aggregate |
| Layer 4 | Flowfast Flexible Sealer |
| Layer 5 | Flowfast Flexible Sealer |

Manufacturer Details

| | |
|---------------------|------------------------------|
| Manufacturer | Tremco CPG Australia Pty Ltd |
| Address | 63 Radley Street |
| Suburb | Virginia |
| State | QLD |
| Postcode | 4014 |
| Telephone | +61 7 3205 7115 |
| Email | specifications@tremco.com.au |

Outline for Installation

| | |
|--|------------------------------|
| Mechanically Prepare Substrate | |
| Apply Flowfast Primer | @ 0.35kg/m ² |
| Apply Flowfast Flexible Binder / Silica Flour 100G | @ 1.5kg/m ² |
| Broadcast Non Slip Aggregate into Flexible Binder *Based on 24 Mesh White Aluminium Oxide | @ 3-4kg/m ² |
| Apply Flowfast Flexible Sealer | @ 0.45-0.55kg/m ² |
| Apply Flowfast Flexible Sealer | @ 0.25-0.35kg/m ² |

Storage

| | |
|--------------------|---|
| Time | 12 Months in Unopened Packs. If longer than 12 Months consult Flowcrete. |
| Temperature | Storage temperature between 5°C and 30°C. |
| Protection | Should be stored inside and protected from frost, weather, moisture, direct sunlight and contamination ingress. |

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.

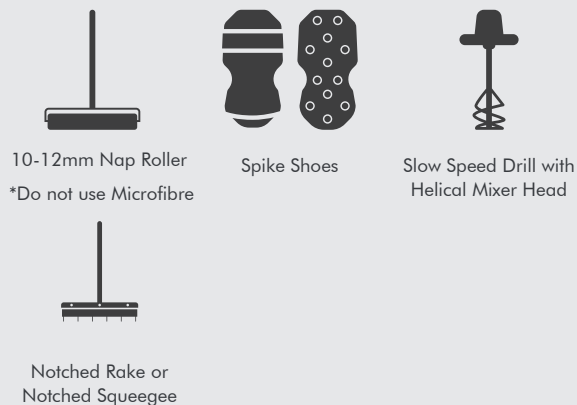
Site Set-Up

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 (m²) each unit will cover. If this is not achieved (greater or less consumption than the specified amount) immediately stop and contact Flowcrete.

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.



Surface Preparation

Concrete should be finished by steel trowel. Surface preparation is to be completed by totally enclosed light shot blasting (please note this may leave track and blast lines which will not be covered) or diamond grinding to a minimum CSP3 prior to any coating application. For proper methods, refer to ICRI's Technical Guideline No. 03732. 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 Flowfast F1 SC. Consult Flowcrete prior to using an alternative repair mortar.

Any rough or uneven areas must be made smooth with Flowfast F1 Mortar. Contact Flowcrete for further information.

Application Temperature

The recommended material and substrate temperature is 0 - 30°C, but no less than 5°C. The temperature of the substrate should exceed the "dew point" by 3°C during application and hardening.

Application / Pot Life

Ready-mixed product should be used within 10 minutes at a temperature of 20°C and 1% Flowfast Catalyst. At higher temperatures or higher catalyst levels (or if left in bucket) the application time is shorter.

Decant mixed product into smaller quantities if applying small/detailed areas.

Application of Flowfast Primer

The substrate must be surface dry before the application of Flowfast Primer.

1. Mixing

Thoroughly mix the resin with a slow speed drill and helical spinner and mix until uniform. Decant required amount of materials by weight using digital scales. Add required amount of Flowfast Catalyst and mix for a further 30 seconds.

2. Application

Immediately after mixing, apply the Flowfast Primer by roller ensuring a continuous, unbroken resin film is applied which ensures full through cure. Apply a second layer if glossy or tacky patches are visible after cure.

Application of Flowfast Flexible Binder

The substrate must be surface dry before the application of Flowfast Flexible Binder. Flowfast Flexible Binder should be applied immediately after Flowfast Primer has cured.

1. Mixing

Thoroughly mix the resin with a slow speed drill and helical spinner and mix until uniform. Decant required amount of materials by weight using digital scales.

Then add pigment (if supplied separately) and mix for 30 seconds. Add required amount of Flowfast Catalyst and mix for a further 30 seconds.

Based on 1kg of Flowfast Flexible Binder and depending on conditions - add between 1-2kg of Silica Flour to Flowfast Flexible Binder and mix for 60 seconds until uniform.

2. Application

Immediately after mixing, apply the Flowfast Flexible Binder by notched squeegee or notched trowel/rake ensuring an even consistent film is achieved. Immediately back roll or spike roll the surface to smooth out any trowel lines.

Immediately after and before curing of Flowfast Flexible Binder, fully broadcast with non slip aggregate until refusal. Allow to cure. Lightly scrape the surface to remove any loosely bonded aggregate, sweep and vacuum remaining aggregate.

Application of Flowfast Flexible Sealer

The substrate must be surface dry before the application of Flowfast Flexible Sealer. Flowfast Flexible Sealer should be applied after Flowfast Flexible Binder has cured.

1. Mixing

Thoroughly mix the resin with a slow speed drill and helical spinner and mix until uniform. Decant required amount of materials by weight using digital scales.

Then add pigment (if supplied separately) and mix for 30 seconds. Then add required amount of Flowfast catalyst and mix for a further 30 seconds.

2. Application

Immediately after mixing, apply the Flowfast Flexible Sealer by roller ensuring an even consistent film is achieved. Allow to cure.

Application of 2nd Coat of Flowfast Flexible Sealer

The substrate must be surface dry before the application of Flowfast Flexible Sealer. Flowfast Flexible Sealer should be applied after the 1st coat of Flowfast Flexible Sealer has cured for a minimum of 1 hour.

1. Mixing

Thoroughly mix the resin with a slow speed drill and helical spinner and mix until uniform. Decant required amount of materials by weight using digital scales.

Then add pigment (if supplied separately) and mix for 30 seconds. Then add required amount of Flowfast catalyst and mix for a further 30 seconds.

2. Application

Immediately after mixing, apply the Flowfast Flexible Sealer by roller ensuring an even consistent film is achieved. Allow to cure.

NOTE: To achieve the best aesthetic results, we recommend there is 1 operative on spike shoes rolling the coating in 1 uninterrupted motion the full width of the area being coated or the full width from joint to joint.

Cleaning

Tools and equipment can be cleaned with MEK/Acetone/Xylene. Please refer to SDS when using solvents.

Trafficking

Allow to cure for a minimum of 2 hours at temperatures no less than 20°C before trafficking.

Notes

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 Tremco CPG 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. System allows for overcoating without mechanical preparation provided the surface is cleaned thoroughly.
2. The product has reached full chemical cure after 2 hours at 20°C.
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 the applicators responsibility to verify accuracy of colour prior to application. Flowcrete does not bear any responsibility or accept claims for incorrect colour after application of material.
7. It is recommended that top coat colours match base coat colours to achieve desired results.
8. This system should have no contact with water for 2 hours at 20°C or blooming may occur.
9. This system should be installed at 3°C above the dew point.
10. Please ensure application temperature and RH limits are followed.
11. Wind or strong airflow may cause quick curing and drying of the system.
12. Ensure wind or strong airflow is eliminated during application, however adequate safety ventilation should still be followed.
13. 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 30°C.
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