

## Deckshield HD Heavy Duty (3 mm)



### Description

Deckshield HD is a BBA approved solvent free polyurethane flexible car park deck coating system which provides a colourful crack bridging, waterproof wearing surface for exposed heavy duty traffic areas such as ramps and loading bays.

### Uses

To cosmetically enhance, reduce noise and waterproof multi-storey car parks world wide. Deckshield makes multi-storey car parks lighter, safer environments to visit. Deckshield is suitable for refurbishment of existing car parks and on new construction projects.

### Benefits

- Aesthetically attractive – brightens up dull, dark, musty car parks
- Reduces noise – stops tyre squeal
- BBA tested and approved
- Hard wearing – abrasion resistant
- Solvent free
- Can be used over existing asphalt substrates
- Fire resistant
- Slip resistant
- Resistant to cracking – flexible waterproof membrane
- Excellent bond strength
- Fast track Installation

Standard colour chart



Arabian Yellow RAL 1005



Forest Green BS 14E53



Dark Grey BS 00A13



Tile Red BS 04D45



Mid Grey BS 18B21



Traffic Blue RAL 5017

The applied colours may differ slightly from the examples shown above. Contact our customer services for a true colour sample or a special colour match.

### Project References

Multi-storey car parks world wide: Kuala Lumpur International Airport; Istanbul Airport; Tsing Yi Car Park, Hong Kong; NCP; Tesco; Marks and Spencer and local authority car parks throughout the UK.

## Model Specification

Product: Deckshield HD system.

Finish: Gloss

Thickness: 3 mm

Colour: \_\_\_\_\_

Preparatory work and application in accordance with manufacturers instructions.

Manufacturer: Flowcrete Car Park Structures

Telephone: Customer Service - +44 (0) 1270 753000

The installation should be carried out by a Deckshield licensed contractor with a documented quality assurance scheme.

## Products Included in this System

Primer: Deckshield EP @ 0.3 kg/m<sup>2</sup>

Deckshield Elastomeric Membrane @ 1.5 kg/m<sup>2</sup>

Deckshield SF @ 1.0 kg/m<sup>2</sup> and fully blind with either

Deckshield Quartz 0.7 – 1.2 mm @ 2.5 kg/m<sup>2</sup> OR

Flintag Grade 5 @ 2.0 kg/m<sup>2</sup>

Deckshield Top Coat: @ 0.4 – 0.6 kg/m<sup>2</sup>

Detailed application instructions are available upon request.

## Focus on the Floorzone

Flowcrete Car Park Structures is a division of the Flowcrete Group, world leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, tank lining systems... to name just a few.

Our objective is to satisfy your Floorzone needs.

## Flooring Design Service

Special corporate colours and designs can be produced to special order.

## Installation Service

The installation should be carried out by a Deckshield licensed contractor with a documented quality assurance scheme.

Obtain details of our licensed contractors by contacting our customer service team or enquiring via our web site

[www.deckshield.co.uk](http://www.deckshield.co.uk)

## 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 BS8204.

## Resistance to Cracking

No failure of Deckshield membrane at 2.5 mm crack width, which exceeds the normal BS8110: Part 1:1985 design parameter of 0.3mm.

## Life Expectancy

10 Years - subject to correct maintenance regime.

## System Performance Guide

The table below shows how well the system complies with different characteristics.

A scale of 1 – 5 where 5 is the best value.

5 Excellent, 4 Very Good, 3 Good (Pass), 2 Fair, 1 Poor

|                    |   |                     |   |
|--------------------|---|---------------------|---|
| Fire Safety        | 4 | Impermeability      | 5 |
| Slip Resistance    | 5 | Cleanability        | 4 |
| Thermal Resistance | 4 | Wear Resistance     | 5 |
| Heavy Traffic      | 5 | Chemical Resistance | 4 |

## Technical Information

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

|   |  |
|---|--|
| Fire Resistance                             | BS476:Part 3: Designated EXT.FF.AA   |
| Slip Resistance                             | TRRL Pendulum Slip Test<br>Dry 92 Wet 46   |
| Temperature Resistance                      | Softens over 70°C, hardens on cooling  |
| Water Permeability                          | Nil – Karsten test (Impermeable)   |
| Chemical Resistance                         | Go to <a href="http://www.deckshield.co.uk">www.deckshield.co.uk</a><br>Resistant to petrol, diesel, antifreeze, hydraulic fluid, chlorides and battery acids. |
| Resistance to chloride ions                 | DOT BD47/94: Appendix B, Method B4,2(d).<br>Result: No chloride ion penetration after 28 days  |
| Abrasion Resistance                         | Taber Abrader:<br>40 mg loss per 1000 cycles<br>(1 kg Load using H-22 wheels)<br>BS2782:Part 3 Method 320A   |
| Tensile / Elongation (N/mm <sup>2</sup> /%) | All samples heat aged at 70°C<br>1 day 5.4/50.4<br>7 day 7.15/40.2<br>28 day 7.17/30.5   |
| Low Temperature Flexibility                 | MOAT 27: Method 5.4.2<br>No failure of membrane layer at –20°C   |
| Tear Strength                               | MOAT 27 Method 5.4.1<br>Test Result = 192 N  |
| Bond Strength                               | Greater than cohesive strength of 25 N/mm <sup>2</sup> concrete. >1.5 MPa.   |

## Speed of Cure

|                    |         |        |        |
|--------------------|---------|--------|--------|
|                    | 10°C    | 20°C   | 30°C   |
| Light traffic      | 30 hrs  | 16 hrs | 10 hrs |
| Full traffic       | 36 hrs  | 24hrs  | 16 hrs |
| Full chemical cure | 12 days | 7 days | 5 days |

## Aftercare - Cleaning and Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

## Further Information

To ensure you are specifying a fit for purpose flooring for your project please consult our Technical Advisors on the number below or visit our website to register your interest in specifying one of the most durable floors on the market.

## Important Note

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

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