Flowcrete
for the world at your feet

Deckshield ED HD

CE
13
PN-EN 1504-2

A flexible, solvent free, polyurethane car park deck coating system which provides waterproof wearing surface for exposed heavy wear areas.

Flexible
Resistant to cracking – flexible waterproof membrane

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

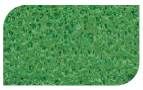
Slip Resistant:
Positively textured anti-slip surface minimizes slip and skid risks

Chemical Resistant:
Protects against diesel, fuel, antifreeze, hydraulic fluid, chlorides and battery acid

Technical Information[1]

REACTION TO FIRE	
B_{fl}-s1	EN 13501-1
SLIP RESISTANCE[2]	
Class III Wet > 55	EN 1504 -2
CRACK BRIDGING ABILITY	
Class A3 (-20°C)	EN 1062-7
TEMPERATURE RESISTANCE	
from -35°C to +70°C (intermittent)	
WATER PERMEABILITY	
Karsten test - Nil (Impermeable)	
CHEMICAL RESISTANCE	
Resistant to petrol, diesel, antifreeze, hydraulic fluids and battery acids	
RESISTANCE TO CHLORIDE IONS	
DOT BD47/94: Appendix B, Method B4,2(d)	No chloride ion penetration after 28 days
WEAR RESISTANCE	
Taber Test: < 3000 mg wheel H22/1000 g /1000 cycles	EN ISO 5470-1
TENSILE STRENGTH/ RELATIVE ELONGATION (N/mm^2/%)	
1 day: 5.4 MPa/50.4% 7 days: 7.15 MPa/40.2% 28 days: 7.17 MPa/30.5%	BS 2782: Part 3 Method 320A Samples tested at 70°C
FLEXIBILITY IN LOW TEMPERATURES	
No damage of the membrane at -20°C	MOAT 27: Method 5.4.2
TEAR STRENGTH	
Class III (≥20 Nm)	EN ISO 6272-1
ADHESION BY PULL-OFF TESTS	
Higher than concrete class C20/25 surface resistance (> 1,5 MPa)	EN 1542

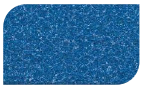
Arabian Yellow


Forest Green

Dark Grey

Tile Red

Mid Grey


Traffic Blue

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

[1] The figures in the table beside are typical properties achieved in laboratory tests – these results may vary depending on the conditions on the installation site. [2] The final anti-slip properties of the floor are influenced by the application method, the size and shape of the aggregate used for the topcoat (aggregate recommendations available from Flowcrete Polska), the degree of abrasion, maintenance and the nature the dirt.

Model Specification

System:	Deckshield ED HD
Finish:	Gloss
Thickness[3]:	Approx 3,0 mm
Colour	According to the catalog
Producer:	Flowcrete Group Ltd, UK
Supplier:	Flowcrete Polska Sp. z o.o.
Telephone	+48 22 879 89 07

[3] In case of special usage requirements, the system can be applied in thickness up to 5.0 mm.

Installation Service

The installation should be carried out by a Flowcrete approved contractor with a documented quality assurance scheme. Obtain details of our approved contractors by contacting Flowcrete Polska or enquiring via website at www.flowcrete.com.pl.

Products Included in this System

Primer[4]:	Deckshield SF Natural quartz sand 0,1–0,3 mm Natural quartz sand 0,1–0,5 mm
Elastic membrane:	Deckshield EM
Main layer:	Deckshield SF Natural quartz sand 0,1–0,3 mm Natural quartz sand 1,4–2,0 mm
Topcoat:	Deckshield Finish Deckshield Topcoat (UV resistant)

[4] If other resins are used contact Flowcrete Polska for further details. Detailed application instructions are available upon request.

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

Substrate Requirements

Concrete or screed substrate should be class min. C20/25, a minimum bond strength of 1,5 MPa (pull-off test), surface even, clean, free from laitance, dust and other contamination. All damages in the substrate should be repaired prior to applying the flooring. The substrate should be dry up to 75% RH as per BS 8204 (5% humidity measured by the Tramex method) and free from rising damp and ground water pressure. In case of higher humidity, one should use Hydraseal DPM as primer. Details to be found in the *Flowcrete Resin Flooring Substrate Requirements.*

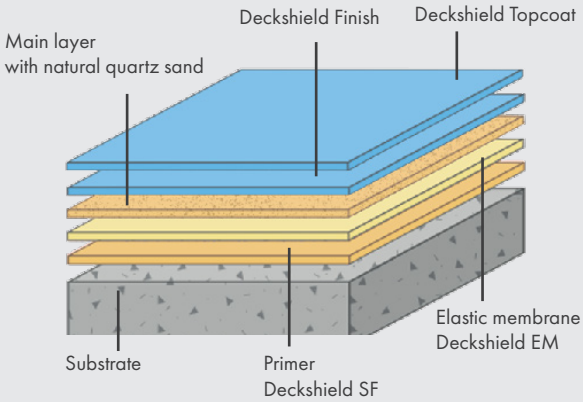
Aftercare – Cleaning and Maintenance

Clean regularly manually or using a machine in conjunction with a mildly alkaline detergent. Flowcrete Flooring Cleaning Instruction available upon request.

Crack Bridging Properties

Using the flexible Deckshield Elastomeric Membrane enhances the crack bridging abilities of Deckshield flooring systems up to 2 mm wide cracks.

System Design



Environmental Considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless, impermeable surface with perfect adhesion to the substrate reduce the need for repairs, maintenance and cleaning.
VOC content < 10 g/l.

Technical information, recommendations and instructions concerning the product use, storage and maintenance included in this System Data Sheet are based on Flowcrete Polska Sp. z o.o. (further related as „Flowcrete") knowledge and experience, reflecting the best acknowledged way of using the material for a given moment. Taking into consideration other factors that are beyond the producer's control, including differences in quality of substrates, tools and other complementary materials, weather conditions, proper installation and also cleaning and maintenance, Flowcrete cannot take responsibility in case of failure to conform with information and instructions included in this System Data Sheet or, respectively, written recommendations from authorized Flowcrete representatives. One should always conform with up-to-date norms and building principles, and also safety, hygiene and health protection rules according to the information included in Material Safety Data Sheets and also on the products packaging. This System Data Sheet replaces all previous versions. In order to receive up-to-date System Data Sheets contact Flowcrete Polska

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