

Deckshield ED1 (3–4 mm)

A polyurethane system which provides a colourful crack bridging, waterproof wearing surface for use over exposed decks.



Independently Certified:

Tested & certified to OS11a and EN 1504-2.



UV Resistant:

100% UV stable formulation prevents surface from deteriorating & yellowing.



Slip Resistant:

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



Chemical Resistant:

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



Temperature Resistant:

Softens over 70°C and hardens on cooling.



Mid Grey



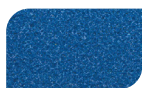
Dark Grey



Forest Green



Traffic Purple



Traffic Blue



Tile Red

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

Technical Profile

EN 1504-2:2005 Part 2: Surface Protection Systems for Concrete

CRACK BRIDGING PROPERTIES

UNE-EN 1062-7:2004 Method A – C.2 @ -10°C	Class A3 >0.72 mm
UNE-EN 1062-7:2004 Method B – B.3.2 @ -20°C	No cracks

SLIP RESISTANCE

UNE-EN 13036-4:2003	Class III: >55 Wet Test
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REACTION TO FIRE

EN 13501-1	B ₁ -s1
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BOND STRENGTH

Measurement of Bond Strength by Pull-off

UNE-EN 1542:1999	>1.5 MPa
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WATER VAPOUR TRANSMISSION

Diffusion-equivalent Air Layer Thickness (Sd)

UNE-EN ISO 7783:2012	Class II: 5 ≤ Sd ≤ 50 m
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LIQUID WATER PERMEABILITY

UNE-EN 1062-3:2008	<0.1 Kg/m ² × h ^{0.5}
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CARBON DIOXIDE PERMEABILITY

Diffusion-equivalent Air Layer Thickness (Sd)

UNE-EN ISO 7783:2012	>50 m
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ADHESION AFTER THERMAL COMPATIBILITY

With De-icing Salt Immersion & Thunder Shower Cycling

UNE-EN 13687-1&2:2002	>1.5 MPa
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ABRASION RESISTANCE

Taber

UNE-EN ISO 5470-1:1999	Weight loss <3000 mg
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BEHAVIOUR AFTER ARTIFICIAL WEATHERING

UNE-EN 1062-11:2003 4.2 (2000 h)	No defects
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IMPACT RESISTANCE

UNE-EN ISO 6272-1:2012	Class III: >20 Nm
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RESISTANCE TO SEVERE CHEMICAL ATTACK

UNE-EN 13529:2005 Group 1, 3 & 10	No defects & reduction in Shore Hardness <50%
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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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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

Typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity for a model specification.

Model Specification

System	Deckshield ED1
Finish	Gloss

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

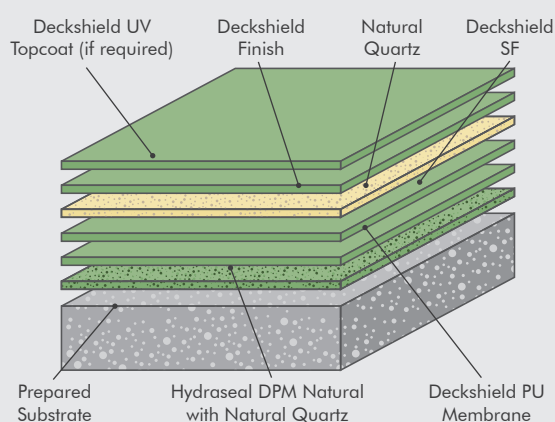
Products Included In This System

Deckshield ED1 for normal wear areas

(e.g. parking bays and lighter traffic).

Deckshield ED1-HD for heavier wear areas

(e.g. drive aisles, turning points and ramps).



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 95% RH as per BS8203.

The system is designed to cope with construction moisture but is not designed to resist hydrostatic water pressure. In such circumstances external tanking or pressure relief, by e.g. directed drainage, must be provided to the structure.

NB: Technical proposals are written for each installation to meet the client's particular requirements, the final thickness will be dependant upon the specification.

Installation Service

The installation should be carried out by a Deckshield approved contractor with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team or enquiring via our website www.flowcrete.co.uk

Important Notes

Please contact our Technical Advisors for details of specialist companies to supply line-marking, which can be re-coated throughout the life of the Deckshield system.

No resin system is totally colour fast and may change colour over time (exhibits a yellowing effect). Colour change depends on the UV light and heat levels present and hence the rate of change cannot be predicted. This is more noticeable in very light colours but does not compromise the product's physical or chemical resistance characteristics. We have endeavoured to adopt colours within our standard range which minimise this change.

Aftercare, Cleaning & Maintenance

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

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, maintenance and cleaning. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained application teams.

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. Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.

System Datasheet written for Flowcrete UK Ltd. Please consult Technical Team in your own country region for specific details. [03/12/19, 02 UK]