

# Deckshield Rapide ED1

## Rapid-curing flexible car park decking system for normal wear areas on external decks (e.g. parking bays), 4.0 mm nominal thickness

<b>Introduction</b>	This specification assumes a concrete base with a minimum 25 N/mm <sup>2</sup> compressive strength and 1.5 N/mm <sup>2</sup> tensile strength (latter as tested to EN 1542). Application temperature is assumed to be 10-25°C. Substrate should be surface dry up to 100% RH as per BS 8204-6.
<b>Surface preparation</b>	By enclosed shot blasting or scarification. Finish edges with hand tools. Remove all residues to leave a dry and dust free open textured surface.
<b>Mixing</b>	With a slow speed drill and helical spinner.
<b>Reinforcement banding with scrim over joints and cracks</b>	<p>Before applying the Deckshield Rapide ED1 system, reinforce construction joints and cracks as follows:</p> <p>Apply a band of Flowfast Damp Primer (wht), 50 mm wider than the reinforcing scrim. Allow to cure.</p> <p>Apply a band of Deckshield Rapide Membrane (wht). While still wet, apply Deckshield Scrim (Woven Glass Fibre XR100), immediately followed by a second layer of Deckshield Rapide Membrane (wht). Allow to cure.</p>
<b>Reinforcement banding over upstands and gullies</b>	<p>Reinforce all horizontal and vertical junctions and gullies etc as follows:</p> <p>Apply a band of Flowfast Damp Primer (wht) and allow to cure.</p> <p>Apply a band of Deckshield Rapide Membrane (wht) and allow to cure.</p> <p><b>Note:</b> Apply Membrane in two layers on vertical surfaces to prevent slumping.</p>
<b>Primer</b>	<p>Use Flowfast Damp Primer (wht).</p> <p>Ensure a continuous, unbroken resin film, which ensures full through cure. Apply a second layer if glossy or tacky patches are visible after cure.</p> <p>Scatter the final primer layer with Natural Quartz 0.3-0.8 mm while still wet and allow to cure.</p>
<b>Note</b>	<p>The primer should be applied <b>either side</b> of the reinforcement banding, <b>not</b> over it. The remainder of the system should then be carried over the banding.</p>
<b>Membrane</b>	<p>Apply a coat of Deckshield Rapide Membrane (wht) at 1 mm thickness and allow to cure.</p> <p><b>Note:</b> To ensure good adhesion between the membrane layers, the membrane must be applied over the banding on the same day. If this period is exceeded, wipe the surface of the banding with Flowfast Cleaner to reactivate and apply the waterproofing layer within 1 hour.</p>
<b>Bodycoat + anti-slip aggregate</b>	<p>Apply a bodycoat layer of Flowfast Flexible Binder (wht), mixed 1:1 by weight with Flowfast SNL Filler. While still wet, scatter to excess with Natural Quartz 0.7-1.2 mm.</p> <p>Allow to cure and remove excess Quartz.</p>

**Topcoat** Apply Deckshield Rapide Topcoat in 1 or 2 layers.

**Traffic** Full traffic 1 hour after the application of the Deckshield Rapide Topcoat.

**Products included in system**

**Reinforcement banding with scrim over joints and cracks**

Flowfast Damp Primer (wht) @ 0.5 - 0.6 kg/m<sup>2</sup>  
(in one or two layers)

Deckshield Rapide Membrane (wht) @ 0.75 kg/m<sup>2</sup>

Deckshield Scrim (Woven Glass Fibre XR100)

Deckshield Rapide Membrane (wht) @ 0.75 kg/m<sup>2</sup>

**Reinforcement banding over upstands and gullies**

Flowfast Damp Primer (wht) @ 0.5 - 0.6 kg/m<sup>2</sup>  
(in one or two layers)

Deckshield Rapide Membrane (wht) @ 1.0 – 1.2 kg/m<sup>2</sup> total

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

**Decking**

**Primer**

Flowfast Damp Primer (wht) @ 0.5 - 0.6 kg/m<sup>2</sup>  
(in one or two layers)

Natural Quartz 0.3-0.8 mm @ 0.3 kg/m<sup>2</sup>

**Membrane**

Deckshield Rapide Membrane (wht) @ 1.3 kg/m<sup>2</sup>

**Bodycoat**

Flowfast Flexible Binder (wht) @ 0.75 kg/m<sup>2</sup>, mixed with

Flowfast SNL Filler @ 0.75 kg/m<sup>2</sup>

**Anti-slip aggregate**

Natural Quartz 0.7-1.2 mm @ 2.5 kg/m<sup>2</sup>

**Topcoat**

Deckshield Rapide Topcoat @ 0.6 kg/m<sup>2</sup> in 1 or 2 layers

(See the relevant Product datasheets for Flowfast Catalyst addition rates)

**Additional information**

Please consult Health & Safety, system, product and application data or contact our Technical Advisory team on +27 11 394 1980 or email southafrica@flowcrete.com.

**Specification reference**

Deckshield Rapide ED1 2.1.14

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