

## METHOD STATEMENT

### DECKSHIELD ED

This specification assumes a concrete compressive strength greater than 25N/mm<sup>2</sup>, application temperatures of 10-35°C and concrete moisture content less than 95% RH as per BS8204. The system must not be applied over a substrate with an existing sub-slab damp proof membrane.

This specification must be read in conjunction with the relevant product technical data sheets.

#### **OUTLINE FOR INSTALLATION:**

<b>Prepare surface</b>	
<b>Apply Deckshield ED Primer</b>	<b>@ 0.30kg/m<sup>2</sup></b>
<i>(depending on the porosity of the substrate)</i>	
<b>Apply Deckshield ED Membrane (1<sup>st</sup> coat)</b>	<b>@ 1.2kg/m<sup>2</sup></b>
<b>Apply Deckshield ED Membrane (2<sup>nd</sup> coat)</b>	<b>@ 0.5kg/m<sup>2</sup></b>
<b>Apply AloX Scatter</b>	<b>@ 0.5kg/m<sup>2</sup></b>
<b>Apply Deckshield Finish</b>	<b>@ 0.6kg/m<sup>2</sup></b>
<b>Apply Deckshield UV</b>	<b>@ 0.12kg/m<sup>2</sup></b>

#### **1. SURFACE PREPARATION**

- 1.1 Surface preparation is to be completed by totally enclosed shot blasting and/or scarification. All cementitious laitance must be removed to expose a sound screed 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.
- 1.2 Any damaged areas must be repaired with Flowfast Repair Mortar. Consult Flowcrete prior to using an alternative repair mortar.
- 1.3 Any rough or uneven areas must be made smooth with Flowfast SNL Slurry.
- 1.4 Anchor grooves, minimum 5mm wide x 3mm deep, must be formed anywhere the Deckshield terminates.
- 1.5 Use a hand-held grinder to form a 1 – 2mm deep recess along all crack lines to receive crack banding treatment.

#### **2. EXPANSION JOINT**

- 2.1 Expansion joints specified by the Architect / Engineer shall be installed by others in accordance with manufacturer's instructions.

#### **3. CRACK BANDING TREATMENT**

Non-moving joints and all cracks that are exposed after surface preparation must be banded as below.

- 3.1 Remove all dust and debris prior to applying the primer.

- 3.2 Prime all areas receiving reinforcement bands using one coat of Deckshield ED Primer 175mm wide at 0.09kg/LM (0.5kg/m<sup>2</sup>).
- 3.3 Reinforce by applying a central band of Deckshield ED Membrane 125mm wide at 0.25kg/LM (2.0kg/m<sup>2</sup>). While the membrane is still wet, apply a 75mm wide strip of Deckshield Fabric by pressing the fabric into the wet membrane with a medium pile roller being sure that the fabric becomes fully saturated. Allow to cure.

#### **4. UPSTANDS (FLOOR/WALL INTERFACE)**

- 4.1 Interface between floor and wall must be filled with a flexible joint sealant.
- 4.2 Remove all dust and debris prior to applying the primer.
- 4.3 Prime using Deckshield ED Membrane 100mm wide X 100mm high at a coverage rate of 0.08kg/LM (0.4kg/m<sup>2</sup>). Allow to become tack free.
- 4.4 Apply a coat of Deckshield ED Membrane 100mm wide X 100mm high at a coverage rate of 0.2kg/LM (1.0kg/m<sup>2</sup>) to the primed substrate. While the membrane is still wet apply the Deckshield Fabric by pressing the fabric into the wet membrane with a short haired roller being sure that the fabric is fully saturated. Allow to cure.
- 4.5 Apply a high build coat of Deckshield ED Finish 100mm wide X 100mm height at coverage rate of 0.06kg/LM (0.3kg/m<sup>2</sup>). Allow to cure for 4-5 hours prior to the application of the Deckshield ED Finish at coverage of 0.02kg/LM (0.10kg/m<sup>2</sup>).

#### **5. APPLICATION OF DECKSHIELD ED PRIMER**

The substrate must be surface dry before the application of primer.

##### **5.1 Mixing**

Pack components are pre-weighed for optimum performance. Never split or proportion packs.

Pre-mix the Base A to re-disperse any settlement. Transfer the Base A and the Hardener B to a clean container and mix with a slow speed drill and helical spinner head for 90 seconds, taking care not to entrain air.

##### **5.2 Application**

Immediately after mixing, apply primer using a medium pile roller and/or squeegee, ensuring it is worked into all surface irregularities. Allow to cure (typically 1 hour, dependent on temperature).

Ensure the substrate is totally primed/sealed. Double priming is necessary for substrate with high porosity.

#### **6. APPLICATION OF DECKSHIELD ED MEMBRANE – 1<sup>st</sup> coat**



Within 2 hours, apply Deckshield ED Membrane.

### **6.1 Mixing**

Pack components are pre-weighed for optimum performance. Never split or proportion packs.

Pre-mix the Base A to re-disperse any settlement. Transfer the Base A and the Hardener B to a clean container and mix with a slow speed drill and helical spinner head for 90 seconds, taking care not to entrain air.

### **6.2 Application**

Immediately after mixing, spread the membrane using pin rake or notch squeegee and steel trowel to the required thickness and finish with a spiked roller or loop roller to release any entrapped air. Allow to cure (typically 1 hour, depended on temperature).

## **7. APPLICATION OF DECKSHIELD ED MEMBRANE – 2<sup>nd</sup> coat**

Within 2 hours, apply the Deckshield ED Membrane

### **7.1 Mixing**

Pack components are pre-weighed for optimum performance. Never split or proportion packs.

Pre-mix the Base A to re-disperse any settlement. Transfer the Base A and the Hardener B to a clean container and mix with a slow speed drill and helical spinner head for 90 seconds, taking care not to entrain air.

### **7.2 Application**

Immediately after mixing, spread the membrane using pin rake or notch squeegee and steel trowel to the required thickness and finish with a spiked roller or loop roller to release any entrapped air. Allow to cure (typically 1 hour, depended on temperature).

## **8. APPLICATION OF DECKSHIELD ALOX SCATTER**

Apply Deckshield Alox Scatter, immediately after the application of the Deckshield ED Membrane.

When the Deckshield ED Membrane is cured, after 2 hours, thoroughly remove the excess aggregate by brush and vacuum.

## **9. APPLICATION OF DECKSHIELD FINISH**

### **9.1 Mixing**

Pack components are pre-weighed for optimum performance. Never split or proportion packs.



Pre-mix the Base A to re-disperse any settlement. Transfer the Base A and the Hardener B to a clean container and mix with a slow speed drill and helical spinner head for 90 taking care not to entrain air.

## **9.2 Application**

Immediately after mixing, apply Deckshield ED Finish with a roller. Allow to cure (typically 4-5 hours, dependant on temperature).

## **10. DECKSHIELD UV**

**Deckshield UV** is a two-component, solvent-based, UV-resistant, polyurethane-based wear layer.

Make sure all loose material has been brushed and vacuumed away from the surface before applying the topcoat.

Stir Base A before adding Hardener B. Carefully empty Hardener B into Base A. Mix thoroughly using a low-speed mixer and helical spinner and ensure that the material is thoroughly mixed.

Then pour the material into another container and mix for a further minute.

Immediately after mixing, apply Deckshield UV Topcoat using a rubber squeegee or rubber squeegee/roller in order to achieve a uniform surface. Use a medium-hard rubber squeegee (e.g. Stiwex rubber squeegee or double-lipped rubber squeegee) and replace if necessary in order to achieve an even coat. Rolling is to be done to smooth out the surface, not to move material.

To avoid glossy patches, make sure that paint does not pool on the structured surface.

## **11. TRAFFICKING**

Allow to cure for a minimum of 24 hours at temperatures no less than 10°C before light trafficking.

Application of all materials to be strictly in accordance with manufacturers instructions:-

**Flowcrete SA (Pty) Ltd, 176 Voortrekker Street, Jacobs, Durban 4052**

*Any recommendation or suggestion relating the use of the products made the Flowcrete SA (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 a requisite skill and know-how in the industry and therefore it is the 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*