

## Deckshield ID

### Application instructions

#### Preparation

Surfaces to be coated should be sound and provide adequate strength for the proposed end use (minimum 25 N/mm<sup>2</sup> compressive strength).

The surface profile and levels should be appropriate for the system to be applied. Substrate humidity must not exceed 75% RH.

Blasting, scouring or diamond grinding removes laitance. Irregularities, damage and cracks are filled with epoxy filler. All residues must be removed to provide a dry, dust free open textured surface.

Contact us for advice if there are impurities, such as oils etc., in the concrete. Check the relative humidity of floors at ground level. Follow our instructions for connections to grid drains, cesspools, pipes and pipe inlets.

#### Application Conditions

Work must not be undertaken if the ambient temperature or the temperature of the substrate falls below 5°C and/or the ambient temperature exceeds 35°C or if the substrate temperature exceeds 50°C. The recommended substrate temperature is between 15°C and 25°C.

The system is only applied to substrates that are free from ice and frost. The temperature must exceed the "dew point" by more than 3°C during application and hardening. If the dew point is reached and dew falls on the surface of the substrate, it is important that the surface is dried before the application process continues.

If it rains on the surface or if the surface is flooded by water, the water shall be removed using a rubber squeegee. The surface must then be allowed to dry before the next coat is applied.

#### Expansion Joints

Expansion joints must be specified by the architect and executed in accordance with appropriate installation instructions.

#### Primer

##### Concrete above 75% RH (to a maximum of 95%RH)

Prime using **Deckshield LXP Primer**.

Stir Base A before adding Hardener B. Carefully empty Hardener B into Base A.

Mix thoroughly using a low-speed mixer. Do not split the batches/components as this may compromise function.

Apply using a rubber rake and/or roller with medium length bristles and ensure that the primer is worked down into all the irregularities of the substrate.

**The wet compound is then completely sprinkled with the selected filler (e.g. Quartz 0.35-0.65mm).**

In the case of porous surfaces where a second primer coat is required, the first primer coat should be allowed to dry until a tacky dry surface has been achieved before the second coat is applied.



## **Vertical Surfaces**

Vertical surfaces, such as pillars and pavements, must be prepared mechanically before priming.

## **Topcoat**

**Deckshield Finish** is a two-component, solvent-free, flexible polyurethane-based topcoat.

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 LXP Finish using a rubber squeegee or rubber squeegee/roller in order to achieve a uniform surface. Use a medium-hard rubber squeegee. 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.

## **UV Topcoat (Optional)**

### **Deckshield UV**

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 by short pile mohair roller.

## **Important Information :**

There may be colour differences between different batches. Make sure that the material comes from the same batch. In instances where the colour is to be the same across multiple orders, Flowcrete should be notified so that production can take this into account.

## **Note that:**

Flowcrete products are often multiple-component systems. Poor mixing, or incorrect mixing procedures, can result in irregular and incomplete hardening, which in turn can result in an inferior final result.

The products should be stored in such a way that the temperature is the same as the room temperature where they are to be applied, i.e. within the range 15-25°C (also applies to the quartz). This improves the mixing, flow, penetration and hardening of the products.

The temperature should be over 15°C to achieve the best results during application. The temperature of the substrate should be at least 10°C, although a temperature of 15-25°C is recommended.

The surface can normally be walked on after 24 hours at 20°C. Complete hardening takes 5-7 days. The temperature of the substrate should exceed the "dew point" by more than 3°C during application and hardening.

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Flowcrete SA (Pty) Ltd is an RPM Company



There are often several types of products at a workplace. Sort the products separately to avoid mistakes.

Quality assurance documentation should always be drawn up for work carried out.

### Consumption of Materials

Primer	Deckshield LXP PRIMER	0.7 kg/m <sup>2</sup>
	Fine Quartz 0.35-0.65mm	approx. 1.5 kg/m <sup>2</sup>
Topcoat	Deckshield Finish	0.6 kg/m <sup>2</sup>
UV Topcoat	Deckshield UV	0.12kg/m <sup>2</sup>

### Cleaning of Tools

Cleaned immediately after use in solvent, e.g. Flowsolve Cleaner or Acetone.

Any recommendation or suggestion relating to the use of the products made by Flowcrete SA, 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 requisite skill and know-how in the industry and therefore it is 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.

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