

# Deckshield Anti-Carbonation system with Anti-Graffiti coating

## Decorative water-based carbonation & graffiti resistant wall and ceiling coating

### Introduction

This specification assumes a smooth concrete or masonry substrate with adequate strength for the proposed end use, an application temperature of 10-30°C, presence of an effective damp proof membrane, no hydrostatic pressure or continuously wet surfaces. The substrate should be surface dry to 95% RH as per BS8204 and free from rising damp and ground water pressure the walls and ceilings. Solid stable surfaces that enable sound adhesion are essential.

Do not apply in poor conditions – application should only be considered when the ambient temperature is +5°C and rising (+30°C maximum) with the relative humidity in the air less than 85%. The surface temperature should be +3°C above dew point to avoid condensation.

### Surface preparation

Preparation is the same as for standard industrial painting, i.e. by grinding or sanding (power washing is the absolute minimum preparation required). Surfaces must be free of friable/ loose material, dirt, grease and oil. Fill any irregularities, damage and cracks with a suitable filler. Remove all residues to leave a dry and dust free open textured surface. In order to provide a continuous pinhole free coating, concrete exhibiting honeycombing or blowholes should be treated with a suitable levelling mortar.

### Mixing

Use a slow speed drill and helical spinner to mix thoroughly to a uniform, smooth consistency. Do not aerate the mix.

### Application of Deckshield Anti-Carbonation

The product is self-priming onto correctly prepared concrete, blockwork and brickwork (may be thinned with 5% clean water by to aid priming). For other substrates, a trial application should be made to confirm satisfactory adhesion.

Apply a minimum of two coats of Deckshield Anti-Carbonation using quality brushes, rollers or airless spray (e.g. Graco Ultra 1500 or similar, 6.17 spray tip and 60 or 100 mesh filter, pressure: 2800 – 3000 psi, 19 – 21 MPa). Allow to cure between layers.

Typical drying time is 2 – 4 hours (min. 15°C and <70% relative humidity).

Sand with a fine grit pad to remove any high spots.

*Apply a minimum of two coats. More may be necessary to completely cover and hide the substrate.*

### Curing

Dust-dry at 4 hours, tack-free at 8 hours, hard-dry at 12 hours (15°C and <70% relative humidity).

Fully cured after 24 hours (15°C and <70% relative humidity).

### Note

At lower temperature and/ or higher humidity, curing takes longer.

**Application of Deckshield Anti-Graffiti** Apply one coat of Deckshield Anti-Graffiti using quality rollers and brushes at a minimum of 60 – 100  $\mu$  (approx. 0.06 – 0.08 kg/m<sup>2</sup>).  
If a second layer is required, lightly sand the cured surface to provide a mechanical key and apply as above.

**Curing** Dust-dry at 90 minutes (15°C and <70% relative humidity).  
Fully cured after 72 hours (15°C and <70% relative humidity).

**Note**  
At lower temperature and/ or higher humidity, curing takes longer.

**Cleaning** Clean the surface with neutral detergent and water to remove general dirt.  
Graffiti may be removed by spraying or wiping the surface with Deckshield Graffiti-Clean and wiping with a clean cloth (some forms of graffiti may require repeat applications).

**Note**  
The surface is resistant to graffiti removal on 3-4 occasions before the system requires re-coating.

**Products included in system** Deckshield Anti-Carbonation @ 0.15 – 0.2 kg/m<sup>2</sup> per layer  
Deckshield Anti-Graffiti @ 0.06 – 0.08 kg/m<sup>2</sup>

**Additional information** Please consult Health & Safety, system, product and application data or contact our Technical Advisory team on 01270 753 000 or email [uk@flowcrete.com](mailto:uk@flowcrete.com).

**Specification reference** Deckshield Anti-Carbonation & Anti Graffiti coating 29.04.15

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