DEFLECTA TOP COAT®
PRODUCT CODE NO. J09DTC

CONCRETE SURFACE DENSIFIER

PRODUCT INTENT

DEFLECTA TOP COAT® is a concrete treatment that increases both density and surface hardness providing increased wear resistance and less permeable to liquids. Can be applied to interior and exterior concrete slabs in such areas as car parks, stairs and landings, driveways, paving and ramps, factories, warehouses, office buildings and commercial/retail areas, but not limited to.

PRODUCT DESCRIPTION

▪ DEFLECTA TOP COAT® is an inorganic densifier that penetrates and bonds with the Portland cement component of the concrete to both harden and strengthen the surface of the slab.
▪ DEFLECTA TOP COAT® can be applied to existing cured concrete and new concrete after 72 hours
▪ DEFLECTA TOP COAT® will not alter the physical characteristics or appearance of the concrete when applied
▪ Over time and wear the slab will improve its appearance compared to untreated slab

PRODUCT BENEFITS

A concrete densifier preventing surface dusting

▪ Hardens concrete surface
▪ Increases abrasion resistance
▪ Prevents surface dusting
▪ Low VOC*
▪ Zero VOS*
▪ Easy application
▪ Biodegradable water based
▪ Water based and non-toxic formulation
▪ Easy maintenance
▪ High coverage rate

* VOC/VOS = Volatile Organic Compounds and Volatile Organic Solvents
### PHYSICAL PROPERTIES – TECHNICAL PRODUCT PERFORMANCE

<table>
<thead>
<tr>
<th>Physical Appearance</th>
<th>Clear Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Based</td>
<td>Water</td>
</tr>
<tr>
<td>Flammability</td>
<td>None</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight</td>
</tr>
<tr>
<td>VOC*</td>
<td>Low</td>
</tr>
<tr>
<td>VOS*</td>
<td>Zero</td>
</tr>
<tr>
<td>Toxicity</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>10</td>
</tr>
<tr>
<td>Flash point</td>
<td>None</td>
</tr>
<tr>
<td>Hazardous vapours/materials</td>
<td>None</td>
</tr>
<tr>
<td>Drum Size</td>
<td>20 Litres</td>
</tr>
<tr>
<td>Surface bond quality</td>
<td>Excellent</td>
</tr>
<tr>
<td>Boiling point</td>
<td>110°C</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.11+</td>
</tr>
<tr>
<td>Waste disposal methods</td>
<td>Non-hazardous</td>
</tr>
<tr>
<td>Freeze temperature</td>
<td>below 0°C</td>
</tr>
</tbody>
</table>

### Consumption rates for floors

We have provided the minimum consumption rates. You may require additional material due to surface porosity, surface profile and wastage etc. All project consumption rates will be site specific and will need to be assessed individually.

#### CONCRETE FLOOR

- Total consumption:
  - 8-12m² per litre

### Shelf life

- 2 years
- Do not store containers in direct sunlight or high temperatures and provided product is kept in the original container and tightly sealed when not in use. Do not allow product to freeze.

### Required condition of surface prior to application

- Prior to applying DEFLECTA TOP COAT® the applicator must have clear access to the total surface of the area to be treated.
- To test surface porosity, place a small amount of water on the concrete surface and watch for penetration. If there is no penetration of the water within two minutes, the surface is not suitable for the application of DEFLECTA TOP COAT® at that time.
- Grind or sand to an open surface finish.

### Internal concrete moisture suppressant

- No

### Liquid formulation

- Yes

### New and aged concrete purging agent

- No

### Cleaning of tools

- Clean all tools and equipment with water immediately after use.
### APPLICATION – For Concrete Floors

#### A. PRECAUTIONS

1. Do not proceed with application of DEFLECTA TOP COAT® when the temperature and or substrate temperature is less than 8°C or greater than 30°C.

2. In hot and windy climates, mist wet the surface with water and remove and pools and or puddles prior to application.

3. Caution should be taken to avoid contact with glass and aluminum as it can etch the surface of these materials. If affected, rinse immediately with water before product dries.

4. Surface may become slippery during application.

5. Always start application at the lowest possible area and proceed to higher elevation.

#### B. PRIOR TO APPLICATION

Ensure concrete surface is clean and free of deleterious materials. These include such things as laitance, salts, paints, epoxies, builders and plaster dust and waste vegetable, oils or animal fluids. Remove waste by light sanding, diamond grinding or wet/dry commercial vacuuming.

1. Prior to applying DEFLECTA TOP COAT® the applicator must have clear access to the total surface of the area to be treated.

2. To test surface porosity, place a small amount of water on the concrete surface and watch for penetration.

3. If there is no penetration of the water within two minutes, the surface is not suitable for the application of DEFLECTA TOP COAT® at that time.

4. The surface will require mechanical preparation by sanding or diamond grinding to allow DEFLECTA TOP COAT® to ingress into the concrete.

5. On completion of sanding / grinding, the area must be vacuumed to remove dust and contaminates before application of DEFLECTA TOP COAT®.

#### C. APPLICATION

**Aged Concrete**

**Existing Cured**

1. For normal class concrete, apply DEFLECTA TOP COAT® at a maximum coverage of 8m² per litre. Keep applying product to maintain saturation for approximately 20 minutes.

2. Areas of high porosity have a faster penetration rate and will require additional product until saturation occurs.

3. Soft or worn concrete may benefit from a second application after the surface has dried. **NOTE:** no rinsing is required.

#### D. APPLICATION

**New Concrete**

**After 72 hours**

1. DEFLECTA TOP COAT® can be applied to new freshly laid concrete after 72 hours.

2. The slab must be clean and free from all contaminants such as curing compounds, builders’ material, dust etc.

3. Use steps 1 to 3 as per Application Procedure for Aged Concrete (above).
**APPLICATION**

**APPLICATION:** This product must be applied by one of the manufacturer’s accredited applicators.

**CHECKLIST:** Applicator Checklist to be completed and returned within 14 days of application to comply with warranty requirements.

**STORAGE AND DISPOSAL**

**KEEP OUT OF REACH OF CHILDREN**

Store in the closed original container in a dry, cool, well-ventilated area. Do not store in direct sunlight or high temperatures. Triple or preferable pressure rinse containers before disposal. Dispose of rinsing’s in an approved manner. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean container to recycler or point of sale. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. Empty containers and product should not be burnt. 

**SHELF LIFE** is 2 years provided product is kept in the original containers and tightly sealed.

**SAFETY DIRECTIONS**

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. If product on skin, wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day’s use wash contaminated clothing.

**CLEAN-UP & SAFETY**

- Caution must be taken as treated surfaces may be slippery until product has completely penetrated the concrete.
- For OH&S purposes, it is advised to wear high visual clothing together with required safety boots and vest.
- Attention should be given to personal items such as glasses and watches, as DEFLECTA TOP COAT® can etch or discolour them. If affected by overspray wash immediately with water.
- Clean equipment using water and mild soap. Never store spray equipment without cleaning and following manufacturer’s recommendations for storage in between usage.

**WARRANTY**

Deflecta Crete Seals warrants this product against manufacturing defects and guarantees it to be manufactured to the current Technical Data Sheet and Specification. Once the product is fully cured it will perform as stated herewith.

The Technical Data Sheet information presented herein and the current Specification is subject to change without notice. All references to DEFLECTA TOP COAT® are correct at the time of publication. Deflecta Crete Seals is not responsible for incorrect assessment of this document by others, or incorrect application of product.

At the site the applicator must test the concrete's suitability for application.

Deflecta requests that the Contractors/Builder/Owner must prepare a sample of each of the nominated (system) products. The samples must reflect and comply with the current specification and any product data information of all product requirements. The Contractor/Builder/Owner shall witness and approve all required stages of the sample process and agree that all products are suitable for the project works.

The prepared samples must be approved by the relevant parties prior to the commencement of application and if there is any doubt that the product is not suitable for the purpose, do not commence any works and advise the Manufacturer.

**Requirement:**

The following must have occurred in order for the Customer to be eligible to make a claim under the Warranty:

- Prior to a Project commencement, Vet-Ag Pathogen Control Pty Ltd – T/as Deflecta Crete Seals must be notified in advance that DEFLECTA® products will be applied to the nominated Project and a Warranty will be required. No Warranty will be issued if Deflecta Crete Seals is notified after the commencement or completion of a Project
- DEFLECTA® products, related items or services supplied by Deflecta Crete Seals in connection with the nominated Project have been paid for in full. Payments due to Deflecta Crete Seals that exceed 60 days (overdue), the Warranty will be void.
JURISDICTION
Is within the State of Victoria relating to Conditional Product Warranty.

TRAINING
Deflecta Crete Seals conducts training on both product and application methods for DEFLECTA TOP COAT®. This may be at our office/on site or as required.

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