

**DEFLECTA SUPREME SEAL<sup>®</sup>**

PRODUCT CODE NO. J30DSS

**INDUSTRIAL DENSIFYING CONCRETE SEALER**

**PRODUCT INTENT**

DEFLECTA SUPREME SEAL<sup>®</sup> is a concrete treatment that increases both density and surface hardness providing increased wear resistance and less permeable to liquids. Used in industrial/commercial areas such as factories, showrooms, and warehouses, but not limited to.

**KEEP OUT OF REACH OF CHILDREN**

**PRODUCT DESCRIPTION**

- DEFLECTA SUPREME SEAL<sup>®</sup> 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 SUPREME SEAL<sup>®</sup> can be applied to existing aged concrete and new concrete after 72 hours.
- Low sheen (Buffing will increase sheen levels depending on surface finish)

**PRODUCT BENEFITS**

- Hardens concrete surface
- Increases abrasion resistance
- Prevents surface dusting
- Resists staining to concrete
- Low VOC\*
- Zero VOS\*
- Easy application
- Biodegradable
- Water based formulation
- Easy maintenance
- High coverage rate

**\* VOC/VOS = Volatile Organic Compounds and Volatile Organic Solvents**

# TECHNICAL DATA SHEET



## PHYSICAL PROPERTIES – TECHNICAL PRODUCT PERFORMANCE

|   |   |
|---|---|
| <b>Physical Appearance</b>  | Opaque  |
| <b>Based</b>  | Water   |
| <b>Flammability</b>   | None  |
| <b>Odour</b>  | Slight  |
| <b>VOC*</b>   | Low   |
| <b>VOS*</b>   | Zero  |
| <b>Toxicity</b>   | None  |
| <b>pH</b>   | 11  |
| <b>Flash point</b>  | None  |
| <b>Hazardous vapours/materials</b>  | None  |
| <b>Drum Size</b>  | 20 Litres   |
| <b>Surface bond quality</b>   | Excellent   |
| <b>Boiling point</b>  | 110°C   |
| <b>Specific gravity</b>   | 1.11± 0.05  |
| <b>Waste disposal methods</b>   | Non-hazardous   |
| <b>Freeze temperature</b>   | below 0°C   |
| <b>Consumption rates for floors</b><br>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. | <b>CONCRETE FLOOR</b><br>Minimum consumption rate for normal class 32MPa concrete <ul style="list-style-type: none"> <li>• <b>8-12m<sup>2</sup> per litre</b></li> </ul>                                  |
| <b>Shelf life</b>   | 2 years<br><br>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. |
| <b>Internal concrete moisture suppressant</b>   | No  |
| <b>Liquid formulation</b>   | Yes   |
| <b>New and aged concrete purging agent</b>  | No  |

### APPLICATION – For Concrete Floors

## TECHNICAL DATA SHEET



|  |          |   |
|--|----------|---|
| <b>A. PRECAUTIONS</b>  | <b>1</b> | Do not proceed with application of DEFLECTA SUPREME SEAL® when the temperature and or substrate temperature is less than 8°C or greater than 30°C.  |
|  | <b>2</b> | In hot and windy conditions, mist wet the surface with water and remove pools or puddles prior to application.  |
|  | <b>3</b> | Caution should be taken to avoid contact with glass and aluminum as it can etch the surface of these materials. Adequate measures need to be taken to avoid contamination of other surfaces during application. Should contamination of any surface occur, immediately wipe (wash) down with fresh water and a clean cloth before product dries.  |
|  | <b>4</b> | Surface may become slippery during application.   |
|  | <b>5</b> | Do not apply DEFLECTA SUPREME SEAL® if rain is expected within 24hours (when applying externally).  |
|  | <b>6</b> | Always start application at the lowest possible area and proceed to higher elevation.   |
|  | <b>7</b> | Clean all tools and equipment with water immediately after use.   |
| <b>B. PRIOR TO APPLICATION</b>   | <b>1</b> | 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.   |
|  | <b>2</b> | Prior to applying DEFLECTA SUPREME SEAL® the applicator must have clear access to the total surface of the area to be treated.  |
| <b>C. APPLICATION</b><br><br><u>Aged Concrete</u><br><br>Existing Cured                          | <b>1</b> | DEFLECTA SUPREME SEAL® is recommended to be applied to existing concrete with a low pressure sprayer to saturate the surface using a fan tip.   |
|  | <b>2</b> | For normal class concrete, apply Deflecta Supreme Seal at a maximum coverage of 8m <sup>2</sup> – 12m <sup>2</sup> per litre  |
|  | <b>3</b> | Keep applying product to maintain saturation for approximately 20 minutes.  |
|  | <b>4</b> | Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product until saturation occurs.   |
|  | <b>5</b> | Using a soft broom or floor squeegee, remove any puddles by redistributing the excess material to create a uniform wet sheen and allow for the surface to completely dry.   |
|  | <b>6</b> | Do not broom or apply further product once drying has commenced.<br>Note : Spread rates will differ depending on the surface finish.  |
|  | <b>7</b> | Soft or worn concrete may benefit from a second application after the surface has dried.  |
| <b>D. APPLICATION</b><br><br><u>New Concrete</u><br><br>After 72 hours                           | <b>1</b> | Apply DEFLECTA SUPREME SEAL® to new concrete after 72 hours.  |
|  | <b>2</b> | The slab must be clean and free from all contaminants such as curing compounds, builders' material, dust etc.   |
|  | <b>3</b> | Use steps <u>1 to 6</u> as per Application Procedure for Aged Concrete (above).   |
| <b>E. Post Application</b><br><br><u>Protection of New Concrete</u>                              | <b>1</b> | The areas treated are to be protected from light foot traffic for at least 12 hours after the last coat of the product dropping into the concrete surface. It is recommended by the manufacturer that areas treated not be subject to heavy traffic and equipment for at least 7 days after the last coat of the product dropping into the concrete surface; or some longer time as specified or directed by the Structural Engineer. |
| <b>F. Post Application</b><br><br><u>Protection of Aged Concrete</u><br><br>Greater than 28 days | <b>1</b> | The areas treated are to be protected for at least 8 hours after the last coat of the product dropping into the concrete surface. It is recommended by the manufacturer that areas treated not be subject to heavy traffic and equipment for at least 48 hours after the last coat of the product dropping into the concrete surface.   |

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## APPLICATOR

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

**For further information on this product or the application process please contact the Manufacturer.**

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

## 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.

## 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 STABILIZER® can etch or discolor 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.

## CLEANING AND MAINTENANCE

DEFLECTA® products are designed to assist in maintaining surfaces to help reduce the cleaning of the facility. A cleaning protocol is still mandatory.

Water based mild alkaline cleaning products are required for the general maintenance of all treated areas. Do not use any solvent/acid-based products.

The cleaning program of all treated surfaces should consist of the following.

- Cleaning is required twice a week
- Apply cleaning product to the surface with spray equipment or brush and manually scrub all areas, providing sufficient agitation to dislodge tenacious soils and protein deposits
- After cleaning, rinse all surfaces thoroughly with clean water
- 
- A cleaning and sanitizing program should be developed and implemented to ensure that all cleaning and sanitizing is conducted regularly and efficiently

Procedure for Fluid/Substance Spills.

- Fluid and/or substance spills should be attended to as soon as possible or when safe to do so
- Care should be taken to thoroughly clean and dry the area

**NOTE 1:** Water based mild alkaline cleaning products are not permitted to dry on the surface as a film may be formed.

**NOTE 2:** A more frequent clean could be required depending upon the environment within the facility or infrastructure. A monthly assessment should be carried out to evaluate whether the current cleaning program accomplishes measurable outcomes.

## **PRODUCT WARRANTY**

Deflecta Crete Seals warrants this product against manufacturing defects and guarantees the product will perform as stated herewith.

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 surface for suitability of application.

DEFLECTA® requires that the Contractors/Builders/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:

- 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.

## **SPECIFIC DISCLAIMER**

The information presented in this Technical Data is intended for selection and the use of DEFLECTA SUPREME SEAL®, is accurate to the best of our knowledge at the time of publication and may be subject to change.

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