

TECHNICAL DATA SHEET



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DEFLECTA STABILIZER®

PRODUCT CODE NO. J02DS

INTERNAL CONCRETE MOISTURE CONTROL

PRODUCT INTENT

DEFLECTA STABILIZER® is a moisture suppressant that assists with the curing process of freshly poured concrete. It is a liquid that is of constant volume that enters the voids and capillaries of the concrete matrix to retain moisture thereby improving hydration during its cure. Can be applied to both interior or exterior concrete slabs in areas such as car parks, factories, warehouses, office building and commercial / retail areas.

KEEP OUT OF REACH OF CHILDREN

PRODUCT DESCRIPTION

- DEFLECTA STABILIZER® is a clear aqueous borne internal moisture suppressant/treatment for protecting concrete
- When applied it impregnates both new and aged concrete
- For curing benefits apply DEFLECTA STABILIZER® to new concrete within 24 hours of pour
- Product will not alter the physical or surface appearance of the concrete

BENEFITS

Concrete areas requiring moisture control

- Internal moisture suppressant
- Water based and formulation
- Biodegradable
- Suitable in concrete for potable water storage
- Low VOC* < 1 gram per litre
- Green Star Design, Green Building Council of Australia Compliant
- Zero VOS*
- For aged concrete, purges waste materials and odours
- Prevents surface dusting
- Minimises loss of water in new concrete
- Hardens concrete surface
- Increases abrasion resistance
- Easy application
- Will assist with concrete curing

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

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Not to be used for controlling hydrostatic pressure

PHYSICAL PROPERTIES – TECHNICAL PRODUCT PERFORMANCE

Physical Appearance	Clear
Base	Water
Flammability	None
Odour	None
VOC*	Low < 1 gram per litre Test Method: 304-91 Green Star Design, Green Star Building Council of Australia Compliant
VOS*	Zero
Formaldehyde	None
Toxicity	None
pH	10 – 11
Flash point	None
Hazardous vapours/materials	None
Drum Size	20 Litres
Surface bond quality	Excellent
Boiling point	110°C
Specific gravity	1.11±
Waste disposal methods	Non-hazardous
Freeze temperature	Below 0°C
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 Minimum consumption for normal class 32 MPa concrete • 4.5m² 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.
Internal concrete moisture suppressant	Yes
Liquid formulation	Yes
New and aged concrete purging agent	Yes

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APPLICATION

A. PRECAUTIONS	1	Do not proceed with application of DEFLECTA STABILIZER® 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 any standing water prior to application. Surface cooling operation should only commence after the product has fully penetrated and the surface sheen has diminished.
	3	Caution should be taken to avoid contact with glass and aluminum as it can etch. Adequate measures need to be taken to avoid contamination of other surfaces during application. Should contamination occur immediately wipe (wash) down with fresh water and a clean cloth before product dries.
	4	Once DEFLECTA STABILIZER® has been applied, wait 14 days on new concrete or 48 hours on existing, before applying coatings, coverings etc.
	5	DEFLECTA STABILIZER® only seals the concrete itself, not fractures/cracks.
	6	Do not re-enter treated areas until the sealant has penetrated the concrete.
	7	Do not apply to external concrete surfaces if rain is expected within 24 hours.
	8	Clean all tools and equipment with water immediately after use.
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 STABILIZER® 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 STABILIZER® at this time.
	4	The surface will require mechanical preparation by sanding or diamond grinding to allow DEFLECTA STABILIZER® 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 STABILIZER®.
C. APPLICATION <u>Aged Concrete</u> Cured Note: Check whether DEFLECTA STABILIZER® has purged to the surface of the concrete any oil, greases and salt etc. These must be thoroughly washed or abraded away before adhesives or coatings are applied.	1	DEFLECTA STABILIZER® is recommended to be applied to existing concrete with a low to medium pressure sprayer using a fan tip.
	2	Pre-wet area of application with clean water to rehydrate concrete to help reduce surface tension. All standing water areas must be dispersed prior to the application of DEFLECTA STABILIZER®.
	3	For normal class concrete, apply DEFLECTA STABILIZER® at a rate no less than 4.5m ² per litre. Apply the first application covering the area in one direction with an overlapping spray pattern of approximately 300mm and once penetrated through the surface (normally 10 – 60 minutes) but not dry, then apply the second application at 90 degrees.

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APPLICATION – For Concrete Floors – Cont.

	4	Start application holding spray tip approximately 200-300mm from concrete surface. Apply the first application covering the area in one direction with an overlapping spray pattern of approximately 300mm and once penetrated through the surface (normally 10 – 60 minutes) but not dry, then apply the second application at 90 degrees.
	5	Entire area being treated is to be saturated, but do not allow DEFLECTA STABILIZER® to pool or puddle. Disperse standing product with a broom 15-30 minutes after application.
	6	Areas of high porosity have a faster penetration rate. These areas appear dry immediately after spraying and will require additional product until saturation occurs.
	7	When temperatures are extremely hot, the surface to which DEFLECTA STABILIZER® has been applied may need to be cooled with water following application. Surface cooling operation should only commence after the product has fully penetrated and the surface sheen has diminished.
	8	Always start application at the lowest possible areas and proceed to higher elevations. On vertical application (walls) start at the bottom and proceed up the vertical surface with horizontal strokes.
	9	Progress sand or lightly grind surface prior to installation of coatings, coverings etc.
	10	Clean all tools and equipment with water immediately after use.
D. APPLICATION <u>New Concrete</u> Cure and Seal	1	Apply DEFLECTA STABILIZER® to new concrete within 24 hours of pour to assist with curing. Start application as soon as the concrete has reached initial set or as soon as it can be walked on without imprinting (after completion of power trowel).
	2	Use steps <u>2 to 10</u> as per Application Procedure for Aged Concrete (above). Note: Comply to the below points to assist with concrete cure <ul style="list-style-type: none"> • After the application of DEFLECTA STABILIZER® and after surface sheen has diminished 'rehydrate the treated area' • All standing water must be dispersed prior to leaving the treated areas Please contact the manufacturer if further information is required.

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.
- If testing figures are greater than RH 85%, the manufacturer should be contacted for further advice.

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 Stabilizer®, is accurate to the best of our knowledge at the time of publication and may be subject to change.

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

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