

Dura Shield

Concrete dust proofer/densifier/surface hardener

DESCRIPTION

Dura Shield is single component water based surface hardener based on sodium silicates. These silicates react with the calcium hydroxide within the concrete matrix to harden the concrete surface to make the concrete surface dust free and easier to clean.

A test sample should always be prepared and allowed to cure prior to proceeding.

PRODUCT BENEFITS

- Excellent penetration
- **Environmentally friendly. Meets “Green Star Building” code**
- Allows trapped moisture to escape
- Doesn't alter the texture or look of the original surface
- Suitable for external use
- Cost effective concrete treatment

TYPICAL APPLICATIONS

Dura Shield can be used in a variety of applications including Manufacturing facilities, Car parking areas, Warehouse floors, exterior Commercial/Industrial car parking and driveways.

APPLICATION RATES

When repairing damaged or dusting concrete surfaces, total application rates are typically 2-4 m² per litre depending on the substrate. (Contact manufacturer for more details).

To lightly broomed or burnished concrete i.e. Warehouse floors and Basement car parking 6 – 8m² is recommended..

VOC RATING

TESTED UNDER THE REQUIREMENTS OF:

IEQ 13 VOLATILE ORGANIC COMPOUNDS “GREEN STAR TECHNICAL MANUAL 2008”

TVOC's calculated as the sum total of the VOC's of each individual raw material component. .

The total VOC is 0.00 grams/ litre of ready to use product

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PERFORMANCE PROPERTIES

COLOUR	Clear LIQUID
FINISH	PENETRATING FILM
VOLUME SOLIDS	APPROX 20%
SPECIFIC GRAVITY	0.80KG/LITRE
REACTION TIME	2-6 HOURS AT 25°C
POT LIFE	INDEFINITE (DRIES BY WATER EVAPORATION)

PACK SIZES

Dura Shield is available in 200ltr, 20ltr containers.

APPLICATION OF PRODUCT

1. Always test the product on the substrate and allow to cure to ensure the desired result will be achieved.
2. Do not clean the surface with Hydrochloric acid (for cleaning procedures contact the manufacturer)
3. Apply product straight from the container (no dilution required)
4. Dura Shield can be applied once the concrete surface is hard enough to allow for the application process to be completed correctly
5. Dura Shield can be applied to freshly poured concrete or established concrete slabs.
6. Surface must free of all excess moisture and contaminants including curing compounds prior to application of sealer
7. Apply the product to the substrate using a low-pressure sprayer, watering can, brush or similar, ensuring the entire surface is wetted, keep the entire surface wetted for a minimum of 30 minutes, ensuring no products comes in contact with surrounding areas.
8. After a minimum of 30 minutes remove all excess material.
9. On dusting or damaged slabs 2 – 3 coats may be required, further applications can be applied, allow 24 hours between coats
10. Where product is applied to freshly poured concrete a second coat may be required (leave for a minimum of 30 days prior to application of second coat)
11. Clean all tools with warm soapy water

PRECAUTIONS

- Do not apply to wet surfaces.
- Protect surrounding areas from overspray, buildings, plants, drains etc
- Wear suitable protective wear, solvent resistant gloves, protective clothing, safety goggles and organic vapour respirator
- Protect sealed surface from moisture during application
- Avoid applying Dura Shield in windy conditions
- Not suitable for natural stones
- Dura Shield may darken the concrete surface
- Dura Shield is designed to be used on good quality concrete surfaces., it will not repair badly damaged or disintegrating concrete

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STORAGE

Keep Dura Shield stored in a dry area, away from direct sunlight & frost, Store between 10°C & 30°C. Pen-Shield has a shelf life of 12 months in an unopened container. Ensure partly used drums are correctly sealed

FIRE

Dura Shield is Non flammable.

SAFETY PRECAUTIONS

Wear appropriate protective equipment, including clothing, gloves, appropriate respiratory mask and goggles.
If poisoning occurs, contact doctor or Poisons Information Centre
If in eyes, hold eyes open and flood with water for at least 15 minutes then see doctor immediately.
For further information refer to the relevant Material Safety Data Sheet

IMPORTANT INFORMATION

The information and recommendations relating to Dura shield are given based on current knowledge and experience. Due to variances in material substrates and site conditions no warranties implied by law or, fit to purpose of the product can be implied. We accept no responsibility for loss or injury due to the incorrect handling or improper use of the product, limiting the cost of our liability to the replacement product cost only. Always refer to current Product Technical Data Sheets.

CONPELL

Head Office: PO Box 2168

Nerang DC, Qld 4211

Ph: 1300 966 118

Fax: 1300 922 001

Brisbane Sales: 0450 040 848

National Sales: 0433 400 220

Email: info@conpell.com

Web: www.conpell.com