

# Dura Shield

Concrete dust proofer/densifier/surface hardener

## DESCRIPTION

Dura Shield is a 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 FEATURES & BENEFITS

- Good penetration
- Environmentally friendly, **Meets “Green Star Building” Code**
- Allows trapped moisture to escape
- Can be used to fix rain damaged concrete
- May alter the look of the original surface
- Suitable for external use
- Comes ready to use, no dilution required
- 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 hard stand areas and driveways or any concrete surface that requires hardening or the reduction of concrete dust is required.

## APPLICATION RATES

When repairing damaged or dusting concrete surfaces, total application rates are typically 2 - 4m<sup>2</sup> per litre depending on the condition of the substrate. (Contact manufacturer for more details).

To lightly broomed or burnished concrete i.e. warehouse floors and basement car parking 8- 12m<sup>2</sup> is recommended. For application to walls 10-15m<sup>2</sup> is recommended.

## VOC RATING

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.

## PERFORMANCE PROPERTIES

COLOUR	CLEAR LIQUID
FINISH	PENETRATING FILM
VOLUME SOLIDS	APPROX 16 %
SPECIFIC GRAVITY	0.80KG/LITRE
REACTION TIME	2-6 HOURS AT 25°C
POT LIFE	INDEFINITE (DRIES BY WATER EVAPORATION)

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## PACK SIZES

Dura Shield is available in 1000ltr, 200ltr & 15ltr 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. The surface must be free of all excess moisture and contaminants including curing compounds, prior to application of Dura Shield.
7. Apply the product to the substrate using a low pressure sprayer, ensuring the entire surface is wet, keep the entire surface wet for a minimum of 20 -30 minutes, ensuring no product comes in contact with surrounding areas.
8. Use a soft bristle broom or micro fibre mop to spread the product evenly across the surface.
9. After a minimum of 30 -45 minutes remove all excess material with a fresh water and a squeegee, white rag or mop.
10. On machine troweled concrete surfaces (where required) wash the surface with water and squeegee off excess material to remove any excess Dura Shield ( Contact manufacturer for further information). Any excess material left on the surface will cause discolouration of the finished surface.
11. On dusting or damaged slabs 2-3 coats may be required, further applications can be applied, allow 24 hours between coats.
12. Where product is applied to freshly poured concrete, a second coat may be required (leave for a minimum of 28 days prior to application of second coat).
13. Clean all tools with warm soapy water.

### APPLICATION TO DUSTING CONCRETE

14. Lightly wash to surface to remove all surface dust and staining, do not clean with acid or high pressure washer.
15. Apply product straight from the container, apply using a low pressure sprayer, apply the product in an even manner ensuring the whole surface has been treated. The surface should remain damp for at least 5 minutes after application, if this doesn't occur apply again until it does.
16. Do not walk on the wet surface as foot prints will be visible after application.
17. Check the surface after 3 days if the surface is still a little dusty and further application may be required.
18. Do not drive vehicles onto the surface until 7 days after dusting has been eliminated.

## 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.
- **ANY CONCRETE TREATED WITH CONPELL DURA SHIELD MUST BE MECHANICALLY GROUND PRIOR TO THE APPLICATION OF SEALERS AND GLUES ETC.**
- Apply Dura Shield between 10°C - 35°C.
- 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.

## STORAGE

- Keep Dura Shield stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Dura 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.

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## SAFETY PRECAUTIONS

- Wear appropriate protective equipment, including clothing, gloves, appropriate respiratory mask and goggles.
- If poisoning occurs, contact doctor or Poisons Information Centre.
- If contact with skin occurs, remove contaminated clothing and thoroughly wash skin.
- If swallowed do not induce vomiting, give a glass of water.
- 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 4252  
Loganholme DC, Qld 4129

Ph: 1300 966 118

Brisbane Sales: 0450 040 848

National Sales: 0433 400 220

Email: [info@conpell.com](mailto:info@conpell.com) Web: [www.conpell.com](http://www.conpell.com)