

# Dura Shield HS

Water based penetrating surface hardener & sealer

## DESCRIPTION

Dura Shield HS is a single component, water based surface hardener and sealer based on silica polymers. These silica polymers react with the calcium hydroxide within the concrete matrix to harden the concrete surface, to increase the concrete's abrasive resistance while reducing the damage caused through water and oil borne contaminants.

Dura Shield HS has the addition of a Silicone additive that increases the surfaces resistance to liquid and liquid based staining.

Dura Shield HS provides long lasting protection, Dura Shield HS may alter the look from the original product.

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

## PRODUCT FEATURES & BENEFITS

- Good penetration
- Minimises efflorescence
- Environmentally friendly, **Meets "Green Star Building" Code**
- Repels moisture within 2 hours
- Reduces mould growth
- Allows trapped moisture to escape
- Doesn't alter the texture of the original surface
- Suitable for external use
- Excellent chloride ion salt resistance
- Improves chemical and abrasive resistance
- Cost effective concrete treatment

## TYPICAL APPLICATIONS

Dura Shield HS can be used in a variety of applications including manufacturing facilities, car parking & warehouse flooring, for exterior commercial/industrial hard stand areas & driveways.

## APPLICATION RATES

Total application rates are typically -

INTERNAL FLOORS - 8- 12m<sup>2</sup> per litre depending on the substrate.

WALLS - 10 - 15m<sup>2</sup> per litre depending on substrate. (Contact manufacturer for more details).

EXTERNAL CONCRETE - 6 - 8m<sup>2</sup> per litre depending on the substrate.

## 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.

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## PERFORMANCE PROPERTIES

<b>COLOUR</b>	<b>CLEAR LIQUID</b>
<b>FINISH</b>	<b>PENETRATING FILM</b>
<b>VOLUME SOLIDS</b>	<b>APPROX 20%</b>
<b>SPECIFIC GRAVITY</b>	<b>0.80KG/LITRE</b>
<b>REACTION TIME</b>	<b>2-6 HOURS AT 25°C</b>
<b>POT LIFE</b>	<b>INDEFINITE (DRIES BY WATER EVAPORATION)</b>
<b>FULL CURE</b>	<b>7 DAYS @ 20°C 50%RH</b>

## PACK SIZES

Dura Shield HS 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. All concrete surfaces must be cured for 7 days prior to application of sealer.
5. Surface must be dry and free of all contaminants prior to application of sealer.
6. Apply the product to the substrate using a low pressure sprayer, ensuring the entire surface is coated in an even, consistent manner. Keep the surface wet for a minimum of 30 minutes to ensure full penetration of the product.
7. Use a soft bristle broom or micro fibre mop to spread the product evenly across the surface.
8. After a minimum of 30 minutes, remove all excess material with a white rag, mop or squeegee.
9. Ensure no product comes in contact with surrounding areas.
10. Once steps 6 and 7 are completed, if residue remains on the surface wet the entire surface with water, scrub the surface with a mechanical scrubber or broom, and remove all remaining moisture with a broom or squeegee.
11. Porous or textured surfaces may require 2 coats, a second application can be applied once the first application has dried sufficiently.
12. The concrete surface can be used by vehicular or pedestrian traffic once the surface is completely dry.
13. 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 HS in windy conditions.
- Not suitable for natural stones.
- Dura Shield HS may darken the concrete surface.
- **ANY CONCRETE SURFACE TREATED WITH DURA SHIELD HS MUST BE MECHANICALLY GROUND PRIOR TO OVERCOATING WITH ANY SEALER OR GLUES ETC.**
- Dura Shield HS is designed to be used on good quality concrete surfaces, it will not repair badly damaged or disintegrating concrete.
- Apply Dura Shield HS between 10°C - 35°C.

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## STORAGE

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

## FIRE

Dura Shield HS 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 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 HS 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.

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