

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 provides long lasting protection while not altering the look from the original product.

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

PRODUCT FEATURES & BENEFITS

- Excellent 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 or look 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 -

FLOORS - 5 - 7m² per litre depending on the substrate.

WALLS - 10 - 15m² per litre depending on substrate. (Contact manufacturer for more details).

VOC RATING

TESTED UNDER THE REQUIREMENTS OF:

IEQ 13 VOLATILE ORGANIC COMPOUNDS "GREEN STAR TECHNICAL MANUAL".

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)
FULL CURE	7 DAYS @ 20°C 50%RH

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, brush or similar, ensuring the entire surface is wetted, keep the entire surface wetted for a minimum of 30 minutes, ensuring no product comes in contact with surrounding areas.
7. After a minimum of 30 minutes, scrub the entire surface with a mechanical scrubber or broom for a further 15-20 minutes, add further product to dry areas.
8. Once steps 5 and 6 are completed, 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.
9. Porous or textured surfaces may require 2 coats, a second application can be applied once the first application has dried sufficiently.
10. The concrete surface can be used by vehicular or pedestrian traffic 4-6 hours after installation.
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 HS in windy conditions.
- Not suitable for natural stones.
- Dura Shield HS may darken the concrete surface.
- 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.

CONPELL

Head Office: PO Box 4252

Ph: 1300 966 118

Brisbane Sales: 0450 040 848

Loganholme DC, Qld 4129

Fax: 1300 922 001

National Sales: 0433 400 220

Email: info@conpell.com Web: www.conpell.com