

Dura Shield L

High Performance, Lithium based concrete surface hardener & sealer

DESCRIPTION

Dura Shield L is a high performance, water based surface hardener based on nano sized lithium silicates. These silicates penetrate deep into the concrete matrix, reacting with the calcium hydroxide within the concrete matrix, to harden the concrete surface and increase its abrasive resistance and reduces the absorption of liquids, making the concrete surface dust free and easier to clean.

Dura Shield L makes the concrete surface extremely dense and liquid repellent, producing a long lasting and durable flooring solution.

Dura Shield L is ideal for use on polished concrete floors.

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

PRODUCT FEATURES & BENEFITS

- Excellent penetration
- Environmentally friendly, **Meets "Green Star" Requirements**
- Allows trapped moisture to escape
- Provides increased abrasion resistance
- Minimises tyre marking and makes the floor easier to clean
- Suitable for internal and external use
- Cost effective concrete treatment
- Easy to use, no dilution required

TYPICAL APPLICATIONS

Dura Shield L can be used in a variety of applications including manufacturing facilities, internal and external car parking, commercial and industrial hard stand or loading docks, warehousing and distribution centre flooring.

Dura Shield L is recommended for polished concrete floors & is usually used in the final stages of polishing.

Dura Shield L is not recommended where the concrete surface has significant dusting or for use on rain damaged concrete.

APPLICATION RATES

To machine trowelled or burnished concrete i.e. warehouse and distribution area flooring or basement car parking areas, 8-12sqm/litre is recommended.

For walls 10-15sqm/litre is recommended.

For polished concrete 8-20sqm/litre is recommended depending on the porosity of the surface.

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

COLOUR	CLEAR LIQUID
FINISH	PENETRATING FILM
VOLUME SOLIDS	APPROX 18%
SPECIFIC GRAVITY	1.05 - 1.10 KG/LITRE
REACTION TIME	20 minutes - 2 HOURS AT 25°C
POT LIFE	INDEFINITE (DRIES BY WATER EVAPORATION)

PACK SIZES

Dura Shield L 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 L can be applied once the concrete surface is hard enough to allow for the application process to be completed correctly.
5. Dura Shield L should not be applied to freshly poured concrete, only apply to concrete that has been cured for a minimum of 28 days.
6. Surface must be free of all excess moisture and contaminants including curing compounds, prior to application of Dura Shield L.

Application to Trowel finished slabs:

7. Apply the product to the substrate using a low pressure sprayer, ensuring the entire surface is coated in an even, consistent manner, keeping the surface wet for a minimum of 30 minutes to ensure full penetration of the product.
8. Ensure no product comes in contact with surrounding areas.
9. Use a soft bristle broom or micro fibre mop to spread the product evenly across the surface. After a minimum of 30-45 minutes remove all excess material with a white rag or mop. Where required wash the surface with water and squeegee off excess material to remove any excess Dura Shield L. (Contact manufacturer for further information). Any excess material remaining on the surface will cause discolouration.

Application to polished concrete:

10. We recommend the use of Dura Shield P for the initial Densifier application prior to grouting.
11. Depending on the look & porosity of the concrete either Dura Shield P or Dura Shield L can be used prior to polishing with 50 & 100 grit resins. Surface must be dry prior to polishing.
12. Dura Shield can be used prior to polishing with, 50, 100, 200 & 400 grit resin pads.
13. Apply appropriate densifier, spreading evenly with a flat micro fibre mop to ensure a thin even coat of densifier is applied.
14. Once the surface has been allowed to dry completely, the surface can be polished with resin pads as required.
15. Clean all tools with warm soapy water.

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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.
- **ANY CONCRETE SURFACES TREATED WITH DURA SHIELD L MUST BE MECHANICALLY GROUND PRIOR TO THE APPLICATION OF SEALERS OR GLUES ETC.**
- Avoid applying Dura Shield L in windy conditions.
- Not suitable for natural stones.
- Dura Shield L may darken the concrete surface.
- Dura Shield L is designed to be used on good quality concrete surfaces, it will not repair badly damaged or disintegrating concrete.
- Apply Dura Shield L between 10°C - 35°C.

STORAGE

- Keep Dura Shield L stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Dura Shield L has a shelf life of 24 months in an unopened container.
- Ensure partly used drums are correctly sealed.

FIRE

Dura Shield L 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 L 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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