

Dura Shield LNplus

High performance Lithium based concrete surface hardener & sealer

DESCRIPTION

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

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

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

PRODUCT FEATURES & 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
- Minimises tyre marking and makes the floor easier to clean
- Suitable for external use
- Cost effective concrete treatment

TYPICAL APPLICATIONS

Dura Shield LNplus can be used in a variety of applications including manufacturing facilities, internal and external car park and hard stand areas, warehousing and distribution centre flooring, commercial driveways.

APPLICATION RATE

When repairing damaged or dusting concrete surfaces, total application rates are typically 2-6 m² per litre depending on the substrate. (Contact manufacturer for more details).

To machine troweled or lightly broomed or burnished concrete i.e. warehouse and distribution area flooring or basement car parking areas, 8-12m²/litre is recommended. For use on walls 10-15m²/litre is recommended.

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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PACK SIZES

Dura Shield LNplus is available in 1000ltr, 200ltr & 15ltr containers.

PERFORMANCE PROPERTIES

COLOUR	CLEAR LIQUID
FINISH	PENETRATING FILM
VOLUME SOLIDS	APPROX 15%
SPECIFIC GRAVITY	0.80KG/LITRE
REACTION TIME	2-6 HOURS AT 25°C
POT LIFE	INDEFINITE (DRIES BY WATER EVAPORATION)

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 LNplus can be applied once the concrete surface is hard enough to allow for the application process to be completed correctly.
5. Dura Shield LNplus can be applied to freshly poured concrete or established concrete slabs. When applied to freshly laid concrete, a second application may be required at a later date after a minimum of 28 days.
6. Surface must be 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, ensuring the entire surface is coated in an even consistant manner, keep the entire surface wet for a minimum of 20 minutes to ensure full penetration of the product. Ensure no product comes in contact with surrounding areas.
8. After a minimum of 30 minutes remove all excess material where required, give the surface a light spray with water and remove excess moisture with a squeegee or broom. Excess material remaining on the surface may cause discolouration of the surface.
9. On dusting or damaged slabs 2-3 coats may be required, further applications can be applied, allow 24 hours between coats.
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 LNplus in windy conditions.
- Not suitable for natural stones.
- Dura Shield LNplus may darken the concrete surface.
- Dura Shield LNplus 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 LNplus stored in a dry area, away from direct sunlight & frost.
- Store between 10°C & 30°C.
- Dura Shield LNplus has a shelf life of 12 months in an unopened container.
- Ensure partly used drums are correctly sealed.

FIRE

Dura Shield LNplus 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 LNplus 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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