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# ARDEX S4

## Green Slab Seal

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Permanent moisture block for internal concrete subfloors

Used as a concrete curing agent at time of pour

Easy application using low pressure backpack sprayer

Single pack ready to use liquid with water-like viscosity

Contains green fluorescent dye for easy initial traceability of treated areas

Allows access to the site after 1 hour

Zero VOC content and environmentally friendly

Non toxic non flammable liquid

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# ARDEX S 4

## Green Slab Seal

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### PRODUCT DESCRIPTION

ARDEX S 4 is a water based liquid solution designed to penetrate deeply into the concrete slab reducing the risk of moisture related problems. ARDEX S 4 can be applied to green concrete slabs where it will penetrate deeply into the slab and react with the free lime to cure forming a hardened gel substance; filling pores, voids, hairline cracks and trapped air cells, creating a permanent slab seal against moisture.

ARDEX S 4 can be applied at the time of concrete being poured or as soon as the surface is hard enough to walk on as an effective curing method with minimal surface preparation required afterwards. At the same time ARDEX S 4 provides a harder dust free surface and permanent moisture proofing that will allow floor covering installation after 14 days from the time of concrete pour.

ARDEX S 4 can also be used as a dust suppressant for warehouse and showroom concrete floors to suppress dust formation and dirt collection with minimum down-time.

### SPECIAL PROPERTIES

- Effective performance with active reaction on the surface of the slab.
- Produced in green fluorescent colour for easy initial identification and traceability.
- Provides extra solid concrete slab surface.

### SURFACE PREPARATION

For new or green existing slabs and when used as a Green Slab Seal, ensure concrete is at least 14 days old. Concrete moisture level must be  $\leq 7\%$  moisture content or  $\leq 85\%$  relative humidity, and falling at the time of application. For use as a concrete curing agent ARDEX S 4 can be applied at the time of pour (as soon as it is trafficable) and no longer than 48 hours after this period in achieving maximum effects as a curing agent.

Concrete floors must be clean dry and free of dust, wax, grease, asphalt, latex compounds, curing and sealing compounds and any other surface contaminants that can affect penetration.

Mechanically clean the floor using recommended preparation methods such as shot blasting, scarifying, diamond grinding, shaving or other suitable methods to provide roughened, clean, sound solid and an open porous surface to ensure effective penetration of ARDEX S 4.

Acid etching is not an acceptable method of cleaning the subfloor. Do not use solvents or sweeping compounds. Concrete must comply with the current Australian Standard. Concrete slab temperature must be a minimum of 10°C.

For wet areas and concrete slabs affected by rising damp, do not use ARDEX S 4. Instead, use ARDEX Moisture Barrier system. For more information, contact ARDEX technical services.

### MANUAL INSTALLATION

ARDEX S 4 is a one pack ready to use agent, ideally applied using a backpack low pressure sprayer for small to medium jobs. For larger projects, an airless HVLP sprayer can be used.

ARDEX S 4 is alkaline, therefore it should not be allowed to dry on glass, aluminium and other alkalinity sensitive items. Appropriate protection with the use of masking and coverings is important to prevent any potential damage to these surfaces.

Saturate the concrete surface thoroughly with ARDEX S 4 at a rate of 4m<sup>2</sup> per litre depending on concrete porosity. To ensure sufficient penetration of the product, treat the surface with multiple spray passes until the area is well saturated maintaining the same coverage rate.

Do not allow ARDEX S 4 to pond or puddle as a white residue will sit on the surface of the concrete which can cause potential problems.

Spread all excess material from the low spots into the high spots on the floor using a soft broom. Additional application may be required if ARDEX S 4 soaks rapidly into the concrete surface. Second application should be performed approximately 15 minutes after the first application.

Hot or windy conditions may prevent ARDEX S 4 from penetrating the concrete surface sufficiently. In this case, it is recommended to mist spray the surface with water to modify the surface properties and prevent premature evaporation or drying out.

### AFTER INSTALLATION

ARDEX S 4 reacts with the free lime inside the concrete slab. As a result of the formation of a pore filling gel, it will purge out to the surface any trapped contaminants. Therefore, it is important that the treated surface is sanded and vacuumed after 24 hours from application.

Prior to applying any ARDEX floor levelling and adhesives products, ensure that the surface is well prepared as per ARDEX substrate preparation guide. Refer to the product data sheet, or contact ARDEX technical services.

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## COVERAGE

ARDEX S 4 is packaged in a 15 litre cube, and it will cover approximately 60m<sup>2</sup> at a coverage rate of 4m<sup>2</sup> per litre.

## STORAGE

ARDEX S 4 has unlimited shelf life if resealed well and stored in dry conditions in the original packaging.

## HEALTH AND SAFETY

ARDEX S 4 is water based, odourless with low VOC and has the viscosity of water. ARDEX S 4 is alkaline. Avoid contact with eyes or skin. Wear suitable protective gloves and safety glasses. In case of contact with eyes, rinse opened eye for several minutes under running water. In case of contact with skin, rinse affected areas thoroughly with running water. If symptoms persist, seek medical advice.

## GUARANTEE

Ardex Australia Pty Ltd (“we” or “us”) guarantees this product (“our goods”) is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee.

This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (Ardex Australia Pty Ltd, 20 Powers Road Seven Hills NSW 2147; Toll Free: 1800 224 070; Email: [techinfo@ardexaustralia.com](mailto:techinfo@ardexaustralia.com)) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost.

This guarantee is in addition to any rights or remedies you may have as a “consumer” under the Australian Consumer Law and to that extent you need to be aware that: “Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

## DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard, our instructions and recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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