

## Product Short Description

### Stone Seal (Porous)

Stone Seal (porous) is a premium water-based penetrating sealer professionally formulated to provide unparalleled protection of marble, limestone, travertine, granite and bluestone. Its advanced fluorochemical polymer technology chemically interacts with the minerals in these fine stones to create a powerfully repellent surface.

#### Description:

Stone Seal (porous) is a water-based penetrating sealer that is light tan in colour.

- Provides premium protection for up to 15 years
- Independently performance tested by NATA approved laboratory
- Meets the requirements for Green Building Council of Australia Green Star Office Design V3 IEQ-13

#### Benefits:

- Precise Chemistry – Formulated using a precise blend of “nano – small particle” fluorochemical technology with specialist penetrating solvents to achieve a high level of penetration into small-pore, dense substrates.
- Premium Protection - provides premium protection against water and oil borne contaminants including; food and beverage stains, oil & greasy spills, biological growth such as mould & mildew, spalling, efflorescence, pollution and weathering.
- Versatile Application – Water based chemistry allows easy application, providing premium protection to a wide range of substrates.
- Natural Look – does not alter the natural look of fine stone nor change its surface texture, slip characteristics or colouring.
- Surface Safe – will not etch or cause discolouration of marble or fine stone.
- Vapour Permeable – won't trap moisture. Allows natural stone to “breathe”.
- Safe to Use – Stone Sealer Gold does not contain chlorinated hydrocarbons and is not a suspected carcinogen.

#### Recommended applications:

- Formulated to provide premium protection from staining to medium to high porosity fine stone, masonry, clay & cement products.
- Marble, Limestone, Travertine
- Sandstone & Bluestone
- Cement & Clay pavers
- Terracotta, Saltillo, Quarry

Ideal for all interior and exterior applications. Excellent protection afforded to fine stone flooring and walls, outdoor stone features, patios, walkways, concrete and clay paving.

#### Expected Wear:

Stone Seal (porous) will provide excellent protection for up to 15 years. However application methods, weather conditions, traffic and harsh cleaning methods will affect wear. Avoid use of solvents, strong acids and strong alkalis for extended sealer life.

It is recommended that the sealer should be re-applied every 5 - 7 years where harsh conditions exist.

**How to use:**

Read and understand the MSDS before use and always pre-test in an inconspicuous location for sensitivity to chemicals.

**Preparation:**

- New installations must be fully cured before application of Stone Seal (Porous) (Min 48 hours)
- Existing stone, tile and grout must be totally clean, dry and chemical free.
- Coverage is 10 to 30m<sup>2</sup> / Litre per coat.
- Do not apply in direct sunlight. Temperature must be between 10°C and 28°C.
- Highly absorbent surfaces may require two or three coats.

**Application:**

1. Apply 1 to 3 coats of Stone Seal (Porous) by generously saturating the surface using a polish applicator, roller or sprayer to an area which can be easily reached. (Approximately 15m<sup>2</sup>). Ensure even coverage.
2. The surface must be shiny wet with a liquid film for at least 1 minute. For very porous substrates more sealer may need to be applied.
3. Allow 5 - 10 minutes for the sealer to absorb into the surface and then move the excess product with a squeegee to a new section.
4. If a second coat is to be applied, wait 20 to 30 minutes and repeat the process.
5. Using absorbent toweling or applicator, wipe off any sealer remaining on the surface after 10 minutes of the last application. Moisten the towel with Methylated Spirits to remove residues which have dried on the surface.

Allow 12 hours before returning area to traffic. Keep dry for 24 hours. Achieves a full cure in 24-48 hours.

**Safety:**

- Non-Flammable according to the criteria of ADG.
- Non-Hazardous according to the criteria of NOHSC.
- Read and understand the Material Safety Data Sheet before opening

Stone Seal (Porous) has been performance tested by Stone Initiatives Pty Ltd; an independent ASTM listed, ASAA member Dimension Stone Laboratory to assess the stain resistance imparted to applied surfaces.

### Summary of Testing:

Stone Samples:	Sydney Sandstone – sawn finish Marble – Polished finish Limestone - Polished finish	
Test Specification:	AS4459:14-99 (Modified cleaning methods)	
Sealer Application:	2 coats Stone Seal (Porous)	
Coverage Rate:	Sydney Sandstone - Marble - Limestone -	1lt/4.4m 2 1lt/20.5 m2 1lt/4.6m 2

The test results from this stringent test procedure demonstrate how effectively the Stone Sealer Gold protects treated surfaces. Whilst it is a well-known fact that no sealer provides a “bullet-proof” barrier to all stains these test results show how close the Stone Seal (Porous) comes to providing a virtual shield to treated surfaces.

Staining agent dwell time: 1hour & 24 hour

Staining Agents	Limestone		Marble		Sandstone	
	Improved mean stain resistance rating from 64% to 94%		Improved mean stain resistance rating from 48% to 70%		Improved mean stain resistance rating from 62% to 78%	
	Unsealed	Sealed	Unsealed	Sealed	Unsealed	Sealed
<b>Red Wine</b>	Light Staining	No Staining	Etching & Staining	Etching & Staining	Moderate Staining	Slight Staining
<b>Orange Juice</b>	Moderate Staining	No Staining	Staining	Staining	Light Staining	No Staining
<b>Black Coffee</b>	Light Staining	No Staining	Severe Staining	Slight Staining	Moderate Staining	No Staining
<b>Engine Oil</b>	Severe Staining	No Staining	Moderate Staining	No Staining	Severe Staining	Light Staining
<b>Olive Oil</b>	Moderate Staining	No Staining	Moderate Staining	No Staining	Moderate Staining	No Staining

### Sandstone

The unsealed stone has very poor resistance to staining; especially oil based stains and is severely affected by stains which leave a fine residue such as coffee and red wine.

The sample of Sydney Sandstone treated with Stone Seal (Porous) significantly improved the stone’s resistance to the staining agents. Improved mean stain resistance rating from 62% to 78%

### Marble

The unsealed stone is extremely sensitive to all staining agents and especially acidic solutions such as red wine and orange juice. No sealer is known which will provide marble with a total barrier to red wine.

The sample of Bianco Carrara Marble treated with Stone Seal (Porous) significantly improved the stone’s resistance to the staining agents applied. It produced a perfect result on the oily stains and reduced etching and visibility of the acidic and fine residue stains. Improved mean stain resistance rating from 48% to 70%

### Limestone

The unsealed stone was found to show severe staining to orange juice.

The sample of light coloured granite treated with Stone Seal (Porous) significantly improved the stone’s resistance to all staining agents. Improved mean stain resistance rating from 64% to 94%

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

*Note: The figures quoted for pot life and drying/curing times are not definitive. They are dependent on site conditions, such as volume of material mixed, ambient and substrate temperatures, weather and ventilation.*

#### **DISCLAIMER**

*Since the use and application of this product is beyond our control we cannot be held responsible for product field performance. The information presented above is the result of our considerable experience with this product but is not to be construed as a performance warranty.*

For additional information, phone our Customer Service Centre on 1800 819 585, or e-mail [helpdesk@aicoatings.com](mailto:helpdesk@aicoatings.com)

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