

GROWSEAL™ Stone Sealer

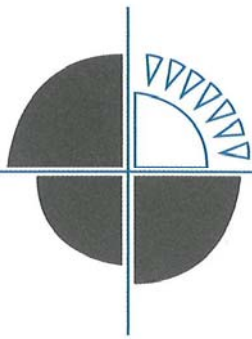
A Revolution in Stone Preservation and Moisture Barrier System

Basic Working Principle

- It is believed that you have come across so many renowned structures in town, they are covered by beautiful marbles or granites. This masonry is inevitably with lots of water stains appearing on the surface. To remove these water stains is practically difficult and costly. To replace this masonry costs much more. This masonry will be impaired by the ingress of water and eventually lost its beauty. All these problems on masonry can be completely solved by the product **GROWSEAL™ Stone Sealer** before the masonry are laid.
- **GROWSEAL™ Stone Sealer** is high performance masonry protector. The constituents in the product react chemically with the carbon dioxide in the air forming an insoluble resin to protect the masonry surface. The complete chemical reaction will take about 24 hours. Besides that, the **GROWSEAL™ Stone Sealer** can penetrate into the masonry substrate to a certain extent, depend solely upon the surface porosity of the substrate. The ultimate goal is that the treated masonry can be protected forever once it's been treated.
- Owing to the simple application and high protective performance, this product has been widely accepted by the end-users. Its application is so wide that it can be used in industry, commercial and residential.
- **GROWSEAL™ Stone Sealer** is a water repellent, non-flammable, water-based and non-toxic. The method of application is so simple, you only need to use a sponge (or sprayer) rubbing it on any masonry surface, wait until the surface is completely dried. Then the function of waterproofing, moisture barrier and anti-putrification exists. **GROWSEAL™ Stone Sealer** will not alter the colour of the masonry, structure and other physical properties. In fact after the treatment by the **GROWSEAL™ Stone Sealer**, the masonry surface is more clearer and clearer (voids being sealed off) and with the glamorous natural masonry finish.

General Applications

- All bricks (e.g. red, grey, green, YTONG, lightweight etc.) after treated by **GROWSEAL™ Stone Sealer**, will immediately be waterproofed as well as reduced its water absorbability.
- For pedestrian pavement, sidewalk or driveway, **GROWSEAL™ Stone Sealer** can improve its durability. The main reason is because the freeze-thaw effect has been greatly reduced. For driveways with heavy traffic, if the water repellency effect is to be maintained in high performance, it should be treated again at a certain time interval.
- For the processing of natural masonry such as limestone, sandstone, pre-casted and ceramics, **GROWSEAL™ Stone Sealer** can stop the white alkaline coming out from the masonry surface. Also it can improve the weather ability of masonry.
- For roofing asphalt materials, if it was treated by the **GROWSEAL™ Stone Sealer**, the asphalt surface can become stain resistance, as well as to improve the adhesion between the floor tiles and the asphalt.
- **GROWSEAL™ Stone Sealer** can absorb the natural mineral such as Perlite to reduce the water absorbability of the substrate.
- **GROWSEAL™ Stone Sealer** can behave as a moisture barrier by sealing off the concrete surface, gloss-surface tile or decorative tiles etc so that the moisture cannot penetrate through the voids on their surface.



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ADVANTAGES & FUNCTION

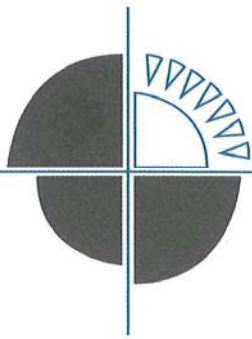
- For general applications on masonry, brick, pavement etc., one application will be sufficient.
- **GROWSEAL™ Stone Sealer** will not alter the colour of the treating substrate as well as its texture. It will also not alter the physical properties of the substrate.
- After the **GROWSEAL™ Stone Sealer** treatment, water and moisture cannot seep through the substrate. The substrate's dampness is improved. By then the substrate will be mold-free and fungal-free. No pitting, rutting and dusting will be occurred on the treated surface.
- It is so simple in the method of application. No thinning is required. You may spray, brush, roll or any other form of application.
- Owing to the fact that there is a good water repellency ability on the treated surface, therefore this is actually improved the coefficient of friction between the walking materials (shoes, tyres etc.) and the treated surface. The degree of safety has been increased for the pedestrians and running vehicles. Experimental results indicate that the wet coefficient of friction is increased and therefore it is highly suitable for pedestrians (Australian Standard).
- In winter conditions, the surface voids have been completely sealed off by the **GROWSEAL™ Stone Sealer** and therefore no moisture is being trapped inside. This enables the easier removal of snow and ice.
- The impermeable layer formed by the **GROWSEAL™ Stone Sealer** does not allow the penetration of grease, oil, acids, alkaline and salts.
- The impermeable layer of the **GROWSEAL™ Stone Sealer** also enables easy cleanup of spills or dirt with mild soap and water.

COVERAGE

1 litre of **GROWSEAL™ Stone Sealer** covers 20m² – 25m² for smooth surface. (e.g. tiles, marbles, granites etc.)

Remarks on Application

1. Shake well before use. No thinning is required. Use as supplied.
2. Chemical reaction will be taken place on some substrates such as glass, glazed surface or aluminium. Before application, cover these materials by used newspaper. The main reason is because of etching effect. In case of accident contact, rinse thoroughly with water immediately.
3. For application on smooth surface, it is recommended to use a sponge for a very thin application. **Do not attempt second coating.** More attempts might form a layer of white crystal on the surface. If that happens, remove the residual **GROWSEAL™ Stone Sealer** immediately before it goes dry and hard with water or moisten cloth.
4. **GROWSEAL™ Stone Sealer** is not a grouting material or filler. It cannot be used to repair any visible cracks on the substrate surface. It is also not suitable to use on uncured or previously sealed asphalt.
5. **GROWSEAL™ Stone Sealer** is a water-based product and therefore if it was frozen – thaw out completely and shake well before using. Freezing will not harm the product. For winter applications, do not apply below 5°C.



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6. After the application for 30 minutes, walking traffic can be allowed on the substrate surface. If this can be avoided, allow the surface to be fully dry before the traffic.
7. All equipment can be washed and cleaned by clean water after use. No goggles and / or breathing apparatus are necessary during application process.

We Strongly recommend that **GROWSEAL™ Stone Sealer** be applied to a small test area first.

PREPARATION OF SURFACES

1. For normal surfaces and / or new concrete applications, clean by **GROWSEAL™ C P T Rust Converter** Clean solution and power wash. Leave the treating surface fully dry before **GROWSEAL™ Stone Sealer** treatment.
2. For concrete surfaces only, we recommend that a moisture barrier such as **GROWSEAL™ DPS** solution be applied first to aid in the bonding of **GROWSEAL™ Stone Sealer**.
3. Any surface treatment such as paint or coating (other than the **GROWSEAL™ DPS** solution) must firstly be removed for **GROWSEAL™ Stone Sealer** to be effective. Remove by scraping, grinding, and / or apply suitable coating removers.

NOTE : While the harmful oil residue will be removed, stains from used motor oil may be permanent.

4. For normal application, use sponge to rub lightly on smooth surfaces. This method is also suitable for dark colour surfaces. For light colour and rough surfaces, spraying or brushing / rolling could be more suitable.
5. Allow the **GROWSEAL™ Stone Sealer** to be air-dried about 30 mins. The surface can then be water-tested.
6. Clean up equipment with water.