

PRODUCT:**SHIELD (NATURAL SEALER)****DESCRIPTION:**

SHIELD is an alkali stable fluoro modified silicone emulsion-impregnating agent. **SHIELD** is designed for use on unsealed terracotta tiles. **SHIELD** possesses unique oleophobic and hydrophobic properties after full curing, (full cure at ambient conditions 1 week), resisting both water and oil carried stains.

ADVANTAGES:

- ☑ Reduction of water adsorption.
- ☑ Reduction of oil adsorption.
- ☑ Reduction of efflorescence.
- ☑ Reduction of lime erosion.
- ☑ Reduction of dirt pick-up.
- ☑ Reduction of chemical vapour corrosion.
- ☑ Reduction of frost damage.
- ☑ Reduction of mildew, mosses, and lichens growth.
- ☑ Restored thermal properties.
- ☑ Does NOT impart the "wet look" to treated surfaces or contribute to surface gloss (when correctly applied).

SUBSTRATE:

The proposed surface to be treated must be unsealed and of a porous nature. Listed below are some of the substrates successfully treated with a guide of the expected coverage when applied to achieve maximum performance;

COVERAGE ESTIMATES:

< Fibrous cement	2 - 4 m ² /litre
< Cement render	1 - 2 m ² /litre
< Concrete	2 - 4 m ² /litre
< Aerated concrete	1 - 2 m ² /litre
< Natural stone (including sandstone)	1 - 2 m ² /litre
< Clay brick walls	1 - 2 m ² /litre
< Concrete block walls	1 - 2 m ² /litre
< Calcium Silicate bricks	1 - 2 m ² /litre
< Terracotta tiles	1 - 2 m ² /litre
< Slate	2 - 4 m ² /litre

Remember these figures are a guide only, each individual substrate can give different results. Substrate saturation is **essential** to give good quality results.

SPECIAL NOTE:**On Natural Stones**

With porous natural stone (sandstone and the like) a penetration of an absolute minimum of 5mm is suggested, with preference of 5-10mm. The degree of penetration should be checked, if practicable by breaking a test slab of stone, prior to commencing the full job. If the penetration is less than 5-10mm the application method should be altered or the stone dried out to reduce the likelihood any possible moisture barrier, preventing the ingress of the treatment.

DIRECTIONS FOR USE : SURFACE PREPARATION

It is essential that all surfaces to be impregnated should be free from cracks etc. Any cracks larger than 0.3mm should be filled. Repair damaged expansion joints/ junctions, flashing and pointing should also be inspected and repaired where required. Surface should be clean and dry prior to commencement of the treatment.

APPLICATION

Before commencing shake the drum to ensure no separation of the resin has occurred. Good technique is a "must" for good results. The substrate to be treated should be flooded using a low pressure spray only (an

CHEMICAL HOUSE[®]

PTY LTD

9 Production Avenue
Molendinar. Qld 4214

ACN 010418 569

☎ +61-7-55940344

☎ +61-7-55940236

✉ PO BOX 595 ASHMORE CITY, QLD. 4214

"from our house to yours"[®]

📧 info@chemicalhouse.com.au

SURFACE MAINTENANCE

airless spray or compressed air sprayer operating with no air pressure at the gun tip.) High pressure sprays should be avoided as this dilutes the amount of product used and actually reduces the amount of material on the substrate, reducing efficiency and efficacy of the treatment. At least 6 hours rain free drying time is required after application.

Treated surfaces should be maintained using Chemical House **"Accent"** general purpose detergent diluted at 100:1. If removal of oil soils requires the use of heavy-duty cleaners, including degreasers it is recommended that reapplication of material be undertaken to ensure continued ongoing protection.

Water while wet.

CLEAN UP

EXPECTED PERFORMANCE:

SHIELD is **NOT** a waterproof treatment or a full surface sealer, nor can **SHIELD** be used as a primer on a clay substrate. **SHIELD renders substrates repellent to oil & water, but keeps the pores of the substrate open allowing normal water vapour diffusion.** Under optimum application conditions porous surfaces treated with **SHIELD** will remain effective as a water & oil repellent surface for up to 10 years, if applied and maintained correctly. Be aware that surface water beading is not the only indication of repellency and this surface effect will disappear after a relatively short period, but the reduction of water movement via capillaries remains effective for the 10 year period, thereby giving protection. Quantification of this water repellency expressed as the Water Adsorption Coefficient is shown in the graph attached.

STORAGE:

If stored in a cool dry place, with the cap firmly secured the expected shelf life of **SHIELD** is 9-12 months. Do not store in direct sunlight or freeze.

SAFETY

Wear personal protection consisting of goggles, gloves and a facemask. Avoid contact with skin or eyes. Wash skin thoroughly with soap and water if splashed onto exposed areas. Cover all plants, glass windows and other surfaces, which may be splashed. Remove any splashes with water immediately they occur (particularly glass as it will etch onto the surface). A **Material Safety Data Sheet** is available on request

PACKS:

5LT, 20LT, 200LT

Ref:Document17

Date:April 08