

# CHEMICAL HOUSE

PTY. LTD.

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## PRODUCT:

### SILICONE WATER REPELLENT - Water based

NSC



Natural Stone & Concrete Care

## DESCRIPTION:

**Silicone Water Repellent (WB)** is an alkali stable silicone micro emulsion in an aqueous base. **Silicone Water Repellent (WB)** has been formulated to be VOC free and to be stable under protracted storage conditions when prepared in ready-for-use concentrations. **Silicone Water Repellent (WB)** finds use as a high quality alkali stable repellent suitable for use a variety of substrates and application methods, from post treatment by the home handyman to in plant fabricated mineral-based construction materials.

## ADVANTAGES:

- Reduction of water adsorption.
- Reduction of efflorescence.
- Reduction of lime erosion.
- Reduction of water borne dirt pick-up.
- Reduction of chemical vapour corrosion.
- Reduction of frost damage.
- Reductions of mildew, moss, and lichen growth.
- Restored thermal properties.
- Stable in high and medium alkalinity substrates (concrete blocks, calcium silicate bricks and sandstone)
- Does **not** impart the "wet look" to treated surfaces or contribute to surface gloss (when correctly applied).
- Can be used as a primer on concrete block wall
- Prior to painting to reduce the effect of capillary action forcing the paint off the surface.

## SUBSTRATES:

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:

Ä Fibrous cement	6 - 10 m <sup>2</sup> /litre
Ä Cement render	1 - 2 m <sup>2</sup> /litre
Ä Concrete	2 - 4 m <sup>2</sup> /litre
Ä Aerated concrete	1 - 2 m <sup>2</sup> /litre
Ä Natural stone (including sandstone)	1 - 2 m <sup>2</sup> /litre
Ä Clay brick walls	1 - 2 m <sup>2</sup> /litre
Ä Concrete block walls	1 - 2 m <sup>2</sup> /litre
Ä Calcium Silicate bricks	1 - 2 m <sup>2</sup> /litre
Ä Terracotta tiles	1 - 2 m <sup>2</sup> /litre
Ä Slate	2 - 4 m <sup>2</sup> /litre

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

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## 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.

## PREPARATION:

It is essential that all surfaces to be impregnated should be free from cracks etc. Any cracks larger than 0.3mm (1/64 inch in the old money) 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. At least 6 hours rain free drying time is required after application.

## DIRECTIONS FOR USE

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 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.

## CLEAN UP

Equipment should be washed in water while still wet.

## RISK PHRASES:

Spilled substance increases risk of slipping on impervious surface.

## SAFETY PHRASES:

S2: Keep out of reach of children. S24/25: Avoid contact with skin and eyes. S23 Do not breathe vapour or aerosol mists.

## FIRST AID:

If swallowed do NOT induce vomiting. Give a glass of water. Seek medical advice.  
If in eyes, hold eyes open, flood with water for at least 15 minutes and seek medical attention.  
Remove contaminated clothing and wash skin thoroughly with soap and water.  
If overcome by fumes: Remove affected person from contaminated area. Avoid becoming a casualty. Apply artificial respiration, if not breathing. Urgently seek medical advice.

## STORAGE:

If stored in a cool dry place, with the cap firmly secured the expected shelf life of **Silicone Water Repellent (WB)** is 6-9 months.

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 mineral turps immediately they occur (particularly glass as it will etch onto the surface). A **Material Safety Data Sheet** is available on request.

## PACKS:

5L, 20L & 200L

REF: SWR\_wb\_pds  
DATE: AUG, '04