

REPEL SS

LOW VISCOSITY SILANE-SILOXANE SYSTEM

Product Info

Generic Type:	Silane Siloxane
Coverage:	4-5m ² /Litre/coat
Recommended Coats:	Minimum 2 coats
Application Temperature:	10 - 28°C
Application Method	Broom, Roller or Spray
Thinning:	Do Not Thin
Dry Time:	1-2 Hours per application
Cure time:	6 Hours
Recoat time	Minimum 2 hours
Finish:	Invisible
Packaging	2ltr,5ltr,10ltr,20ltr,200ltr

Results

Reduction in water absorption: ..	82 % at 28 days
When used in conjunction with Permacolour waterproofing system:	100% at 28 days
Moisture vapour transmission:210 g/m ² /day
Reduction in chloride ion penetration:	90% at 28 days

Physical Properties

Appearance	Clear colourless liquid
Boiling Point (°C)	147-199°C
Vapour Pressure (mm of Hg at 20°C)	0.21
Per Cent Volatiles	100%
Specific Gravity (at 25°C)	0.771
Solubility in water (g/l at 25°C)	Negligible

FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point:	40°C
Flammability Units % by volume	1.0 - 7.0
Fire Extinguishing Media: Co2 or dry powder type extinguishers	
Dangerous Goods Classification:	3

PRODUCT DESCRIPTION

Permacolour Repel SS is a low viscosity silane-siloxane system. It penetrates deeply into porous substrates, producing a bonded hydrophobic lining to the pores and an increase/improvement to the density of concrete. This treatment significantly reduces the absorption of water, animal excrement, water borne salts, oil, gas, grease, concrete dusting and other fluids.

SUITABILITY

- Dairy Sheds
- Brick and Hinuera stone veneers
- Waterproofing external block walls above ground level when used with complete system. See next page on waterproofing.
- Any Concrete surface where reduction of water absorption/penetration is required.
- Internal & External surfaces
- New construction, existing concrete, foundations, pre-cast, tilt-up, bridge decks, tunnels, driveways, basements, concrete pavers, masonry products, polished and ground concrete, concrete bench tops, and coloured concrete .
- Concrete Statues

ADVANTAGES

- Protect against water and oil-based staining.
- Decreases penetration and the staining effects of cow waste.
- Reduces Efflorescence.
- Reduces water and chloride intrusion and the growth of moss.
- Deeper penetration than water base types.
- Allows concrete to breathe

INSPECTION

Surface must be structurally sound, dry, and free of oil, grease, curing agents, dirt, dust or other foreign matter. Surface must be roughed up or porous. This product is designed for use over untreated concrete surfaces free from wax, dusting preventive sealers, deep penetrating sealers, bond breaking compounds and release agents and other similar chemicals that will interfere with proper penetration and lead to premature coating failures.

SURFACE PREPRATION

Permacolour Eliminator Algae and Moss Killer should be used for the removal of moss or algal growth. Rinse off with liberal quantities of clean water and allow to dry. Protect plants, grass, asphalt, bitumen, plastics and all painted surfaces during preparation and application.

PRECAUTIONS

DO NOT apply over mildew. Mildew is a fungus, brown, black, grey or even white in colour, and will rapidly grow through any coating applied over it. Permacolour Eliminator Algae and Moss Killer will destroy the mildew. See precautions on bleach label for handling before using.

DO NOT THIN/DILUTE

DO NOT allow Permacolour Repel SS to be contaminated with water.

IDEALLY concrete should be 28 days old prior to applying Repel SS.

DO NOT apply to any surface if moisture is present.

DO NOT apply externally if rain is likely within 24 hours of application.

DO NOT allow Repel SS to come in contact with Glass Surfaces. Once dry, it can only be removed mechanically.

APPLICATION INSTRUCTIONS

Permacolour Repel SS should be applied in two flood coats by low pressure spray direct from the can and without thinning. Can also be applied by broom or brush, ensuring all areas are properly coated. Ensure that at least the application rates are achieved (see coverage). On absorbent surfaces, repeat or increase the rate of application until the surface is completely saturated. Allow a minimum of 2 hours between coats.

THINNING

DO NOT THIN OR DILUTE!!

DRYING TIME/CURE TIMES

Allow a minimum of 2 hours between coats. Drying time is affected by surface porosity, suction and air temperature.

When overcoating Repel SS with any other Permacolour sealers, please contact us for more information on wait periods and recoat times.

COVERAGE

Permacolour Repel SS should be applied in two coats at the minimum rate of 1 litre per 5m² per coat.

CLEAN UP

Equipment should be cleaned with Kerosene and hot soapy water immediately after use. Any spillages should be absorbed with sand or sawdust etc, and disposed of in accordance with local regulations. If accidentally applied to glass, wipe off immediately with methylated spirits or turpentine thoroughly before Repel SS dries.

LIFE SPAN /MAINTENANCE

This will depend on the density, cement content and finish of the concrete surface the Repel SS is applied to. Majority of the sealant will permanently stay in the concrete, where on the surface it will weather off over time or wear on trafficable surfaces. On vertical pre-cast concrete surfaces a maintenance coat should be done after 7-10 years and horizontal trafficable areas 3-5 years.

In this example, we applied cow excrement to a concrete slab. It left a stain on the untreated concrete even after cleaning. The area treated with Permacolour Repel SS has a very faint mark but the surface remains clean.



WATERPROOFING

****this system must be applied by a recommended applicator****

Waterproofing on a vertical concrete block wall can be achieved by using two flood coats of Repel SS at a rate of 2-3 m² per Litre followed by 3 coats of Permacolour Concrete Sealer Extra, first coat un-thinned at 3m² per litre, second coat 5m² per litre and a third coat at 6-8m² per litre

Unique impregnating sealer technology



SAFETY & HANDLING

Handling Precautions: Permacolour Repel SS should not be allowed to come into contact with skin or eyes, or be swallowed. Avoid prolonged inhalation of vapours. Protective gear such as masks, goggles and barrier cream should be used. Ensure there is adequate ventilation and if working in enclosed areas a suitable breathing apparatus must be used.

Swallowed: If swallowed, DO NOT induce vomiting. Seek immediate medical attention. Begin artificial respiration if the person is not breathing. Use mouth to nose rather than mouth to mouth.

Skin Contact: If contact with the skin occurs, remove contaminated clothing and flush affected area with large amounts of water.

Eye Contact: Splashes to eyes should be washed well with plenty of clean water. Continue flushing for at least 15 minutes. Get medical attention if irritation persists.

Inhalation: Move the victim to fresh air immediately. Keep warm and at rest. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Seek immediate medical attention.

Fire: Permacolour Repel SS is flammable. DO NOT expose liquids or vapours to naked flames or other sources of ignition. NO SMOKING. Containers should be tightly sealed when not in use. In the event of a fire, extinguish with CO₂ or foam type extinguishers.

Storage: Permacolour Repel SS should be stored in a cool, dry place away from sources of heat or naked flames. Two year shelf life, stored unopened.

KEEP OUT OF REACH OF CHILDREN!

* Contact Permacolour for additional storage and health details.

* MSDS available on request.

This product is classified as hazardous under HSNO criteria

Dangerous Goods Class: 3

WARRANTY: Permacolour products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification. The information contained herein is true and accurate to the best knowledge of Permacolour. Since we cannot anticipate all possibilities and conditions under which this information and our products may be used, Permacolour hereby accepts no responsibility and offers no warranty in the case of results achieved by the use of our products or of the safe use and suitability of these products. Permacolour offers our products for sale subject to, and "The Customer" and all users are deemed to have accepted our Terms and Conditions of Sale. We warrant our products to be free of manufacturing defects. If any product is found to be defective and was within storage/shelf life, Permacolour will replace the product at no charge to the purchaser. Permacolour makes no other warranty with regards to our products, either expressed or implied. Whilst any information provided by ourselves, both verbally or written, is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control. As all Permacolour technical data sheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.