

Nutech Concrete Range

Nutech Paint
Application Instructions & Guidelines
Nutech Concrete Range of Products



Pavecoat H₂O Concrete Sealer

Nu-tech Pavecoat H₂O is a single pack water-based acrylic concrete sealer and has been developed to achieve excellent penetration and adhesion characteristics to overcome the problems associated with traditional concrete sealer solutions in organic solvents. Pavecoat H₂O forms a tough film on the surface.

Pavecoat H₂O concrete sealers are widely distributed in Australia in a wide range of colours and custom tinting.

Features

Pavecoat H₂O has been designed to provide a concrete treatment, which has excellent waterproofing and non-wearing performance similar to equivalent organic solvent solution acrylic sealers without the associated environmental problems.

- Manufactured from a high quality fine particle size acrylic emulsion.
- Designed as a two coat system on high density surfaces
- Suitable for sealing Interior & Exterior concrete surfaces
- Displays excellent durability on Interior and Exterior surfaces
- Fair – Good Chemical and Oil resistant
- Excellent adhesion to Concrete and Masonry surfaces
- The sealer has Low Odour, Low Toxicity and Non Flammability characteristics.
- Excellent protection against Fading or Leeching of Oxides in concrete
- Excellent protection against Staining or Marking due to contaminants including Grease and Oil
- Excellent Pigment dispersion and is water reducible to suit different application substrates.
- Excellent Gloss and colour retention
- Excellent recoatability and easy repair of damaged surfaces
- Improved hardness and flexibility
- Rapid drying and reduced recoating downtime
- Improved ultra violet light resistant and non yellowing
- Moisture vapour permeable to avoid blistering risks
- Water clear transparency and water resistant
- Good resistance to discolouration
- Resistance to hot tyre pick up after curing time has passed

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Typical Properties

Appearance:	Milky liquid drying to a clear film
Total Solids content	30% or subject to application
PH	9.0
% Volatiles	Nil (Non flammable liquid)
Solubility in water	Miscible
Minimum film forming temperature	15°C
Minimum Sealer Dry Film Thickness:	180 microns

Typical Uses

Typical projects include:

- Concrete driveways
- Garage Floors
- Factory floors and Workshops
- Stencil and Slate impression concrete

Applications & Features

Equipment & Tools: Broom, Roller, Brush or Spray is recommended, subject to suitable surface preparation.

Test Patch: It is highly recommended that applicators test any Nutech system first as each surface profiles varies significantly with individual conditions.

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Preparation: Clean all concrete before applying Pavecoat H₂O Concrete Sealer.

- On smooth concrete and hardened surfaces it is also necessary to etch the surface to improve surface porosity. This includes slate impression concrete, polished or ground concrete, stone dust and colour hardened concrete, steel trowelled concrete and smooth trowelled joint and border lines.
- Nu-EcoSafe-Strip Safe Etch is broomed over the concrete and allowed to penetrate for several minutes. Thoroughly flush the surface with water to remove the Etch solution and allow to dry completely before sealing.
- High pressure water blast (>2000 Psi) to remove concrete salts and dust (efflorescence), dirt and contamination.

Application Guidelines

Application Procedure:

Coverage: 6 Sqm meters per litre

Dilution: *Thin first coat 15% - 20% , No thinning is required for subsequent coats.*

- Ensure first coat saturation to assist penetration into the concrete surface and guarantee satisfactory adhesion.
- More than two coats of a light coloured sealer may be required on concrete or when over coating a darker surface
- In winter new concrete is usually cold and wet on the surface for at least 2-3 days and sometimes for up to one week. Sealing of this concrete is not recommended until the surface has started to whiten indicating adequate curing.
- If inadequate sealer thickness is applied on new concrete, some efflorescence (salt whitening) may occur for a short period. This white powder can usually be washed off easily and should cease after several months. The application of one or two additional coats of sealer can prevent the appearance of white salts.

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Application Guidelines

Application Procedure:

- Although Pavecoat H₂O Concrete Sealer will prevent surface powdering of the concrete, sealers do not appreciably increase the hardness of the concrete surface.
- Soft or damaged concrete should not be sealed with Pavecoat H₂O Concrete Sealer without special surface treatment to stabilise and harden the concrete.

Sealing & Resealing Old Concrete:

- Remove all grease, oil, food, contamination and flaking paint before sealing or re-sealing.

NOTE: Nutech Nu-EcoSafe High Strength Degreaser should be used to remove oil and grease.

- All cleaners, chewing gum, food, silicon and acrylic paint should be completely removed from the concrete before Pavecoat H₂O Concrete Sealer is applied.
- Thorough testing is recommended before applying Pavecoat H₂O Concrete Sealer over a previously sealed surface to ensure compatibility.
- Before applying Pavecoat H₂O Concrete Sealer do not etch the concrete if there is an existing sealer or coating on the surface because coating delamination will occur.

Slip Hazard: Sealing of smooth and sloping concrete surfaces will reduce pedestrian and vehicle safety.

- Adding one or two 400gram packets of Nutech Anti-Slip Additive per 20 litres in the final coat of Pavecoat H₂O Concrete Sealer will reduce slipping and improve pedestrian safety.
- Nutech Anti-Slip Additive is not adequate on steep concrete therefore Pavecoat H₂O Concrete Sealer is not recommended for sealing very steep and smooth concrete.
- Refer to your Nutech specialist for alternative coating recommendations on steep smooth surfaces.

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Curing Time: Curing time is dependant on temperature.

- At 25°C Water-based Concrete Sealer will be touch dry in 30 minutes.
- Allow a minimum of 1 hour between coats in warm weather and longer in cool weather. In cold weather allow additional time.
- Full curing is not achieved for up to one week.
- Avoid parking vehicles for several days in cold weather and 3-4 days in very hot weather.
- Do not park vehicles with hot tyres on newly applied Water-based Concrete Sealer for at least five days.

Clean up: Use Water

Application Warnings

Avoid sealing when rain or dew is expected within 24 hours. Any contact with moisture within the first 24 hours will damage newly applied sealer.

Avoid washing for 7 days after application.

Refer to Nutech Material Safety Data Sheet for additional safety and user information.

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DISCLAIMER: Warranty and Limitation of liability:

Warranty

Nutech warrants its products to be free from defects in material and workmanship. Nutech's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Nutech's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products.

Any claim under this Warranty must be made by Buyer to Nutech in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify Nutech of such non-conformance as required herein shall bar Buyer from recovery under this Warranty.

Nutech makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall Nutech be liable for consequential or incidental damages.

Any recommendation or suggestion relating to the use of the products made by Nutech, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

Limitation of Liability

Nutech's liability on any claim of any kind, including claims based upon Nutech's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which gives rise to the claim. In no event shall Nutech be liable for consequential or incidental damages.

Important Note:

The information given on this data sheet is based on many years experience and is correct to the best of our knowledge. However since the use of our product, surface conditions, weather and a number of other factors are completely beyond our control, we can only be responsible for the quality of our product at the time of dispatch. For more information please contact our Company. As this information is of a general nature, we cannot assume any responsibility in individual cases.