

Nutech Concrete Range

Nutech Paint
Application Instructions & Guidelines
Nutech Concrete Range of Products



PaveCoat® Concrete Sealer

Description

PaveCoat® concrete sealers utilise advanced technology developed by Nutech over 40 years. PaveCoat® is recommended for a wide variety of functional, decorative and protective concrete.

PaveCoat® seals, colours and protects concrete to provide a durable surface ideal for pedestrian and vehicle traffic.

PaveCoat® provides an attractive finish for new and old concrete.

The PaveCoat® range is available in matt, standard and high gloss clear and colours in a wide range of designer, traditional and heritage colours to brighten up even the most boring concrete surface.

Typical Properties

Appearance:	Single pack clear colourless or coloured viscous liquid
Total Content:	17% Cure & Seal, 25% UV Clear, 28% Colour Seal
pH	N/A
Per Cent Volatiles:	> 70% (highly flammable)
Specific Gravity	
Diluting Solvent & Clean Up:	Nutech Thinners
Soluble in Water	Not
Minimum Film Forming Temperature	10°C
Minimum Dry Film Thickness	
Recommended Application Rate:	Two coats @ 4-5 square metres per litre per coat

Typical Projects include

PaveCoat® is manufactured from Acrylic Polymer Resins and is recommended for:

PROJECTS	DESIGNS
Concrete Footpaths,	Plain Concrete
Paving	Pattern Paving
Driveways	Stamped and Slate Impression Paving
Factory & Workshop Floors	Stencil Paving and spray Paving
Service Stations	Designer Concrete Coatings®
Tilt Slab Construction	Fauxtex®
Asbestos and Cement Sheeting	Duratex®
Slate Flooring	Ad-Tex®
Concrete Roof Tiles	Similar products to colourmatch

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Features

- PaveCoat® is highly durable and resistant to oil and most household chemicals excluding petrol and solvents.
- PaveCoat® Petrol Resistant200 and Petrol Resistant210 is highly petrol resistant and suitable for petrol stations and light duty vehicle workshops.
- Epic Industrial Enamel is recommended for overcoating standard enamel floor paints and for oil and grease contaminated motor vehicle workshop floors.
- The PaveCoat® range is designed to provide a decorative and protective coating system for a wide range of concrete paving and building applications.
- PaveCoat® provides excellent adhesion, weather and waterproofing protection and a hardwearing surface.
- Designed as a two coat system, PaveCoat® provides excellent protection against fading and powdering of oxide colours, staining and marking due to contaminants including foodstuffs, oil and grease.
- PaveCoat® Coloured Sealer is non-fading and resistant to discolouration.

Application Guidelines

- Refer to the PaveCoat® Material Safety Data Sheet and the Nutech Concrete Sealer Application Guidelines for complete product and safety information before using any PaveCoat® product.
- PaveCoat® products are highly flammable and skin and eye contact must be avoided.
- Ensure adequate ventilation at all times.
Seek immediate medical advice if safety or health issues arise.

Equipment & Tools

Broom, Roller, Brush or Spray is recommended subject to suitable surface preparation.

Sealing New Concrete Surfaces

Preparation

- It is very important to clean all new concrete before applying PaveCoat® sealers. The best method is to high-pressure water blast (>2000 Psi) to remove concrete salts and dust (efflorescence), dirt and contamination.

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Preparation Cont-d

For bare/unsealed concrete it is also necessary to acid etch the concrete surface to improve surface porosity therefore we recommend using Nu-EcoSafe Concrete Etch or Hydrochloric Acid.

This includes:

- slate impression concrete
- polished or ground concrete
- stone dust and colour hardened concrete
- steel trowelled concrete
- smooth trowelled joint and borderlines.

A mixture of 1 part Hydrochloric Acid or NuEcoSafe Concrete Etch to 10 parts clean water is poured over the concrete and allowed to penetrate for 10-15 minutes.

Thoroughly flush the surface with water to remove the acid solution and allow to dry completely before sealing.

Dilution

- The first coat of clear or coloured sealer must be diluted with Nutech Thinners to assist penetration into the concrete.
- Ensure first coat saturation to assist penetration into the concrete surface and guarantee satisfactory adhesion.
- Adding 4 litres of Nutech Thinners to 20 litres of PaveCoat® on plain concrete and up to 50% Thinners for hardened, topping coloured and smooth steel trowelled concrete is recommended for the 1st coat.

NOTE:

A light mist spray or light roller application technique will not assure surface penetration and adhesion problems will result.

On very porous concrete thinning of the first coat is not required.

More than two coats of a light coloured sealer may be required on porous concrete or when over coating a dark surface.

The 2nd and subsequent coats of sealer do not require thinning.

If the sealer is being applied in hot weather the addition of 2 litres of Thinners per 20 litres of PaveCoat® will reduce surface bubbling.

STIR COLOURED PAVECOAT THOROUGHLY BEFORE APPLYING

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PaveCoat® Cure & Seal

Preparation & Application

UV Clear and Colour Seal may be applied on fresh curing 'green' concrete the same day, provided the surface it is not saturated with water and can be walked on. This may not be possible in winter.

If the first coat of sealer is not applied on the same day it is poured, it is important to wait until the surface is sufficiently cured to enable surface preparation as recommended above.

In winter 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, usually around 7 days

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.

Although PaveCoat® 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® without special surface treatment to stabilise and harden the concrete

Sealing & Resealing Old Concrete

Preparation & Application

It is important to remove all grease, oil, food, contamination and flaking paint before sealing or re-sealing.

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

Soaking heavy stains with Nu-EcoSafe High Strength Degreaser before high pressure water cleaning is recommended.

Multiple detergent washes and adequate rinsing will be required on oil and grease affected floors.

Refer to Nutech Motor Repair Workshop Guidelines.

All cleaners, chewing gum, food, silicon and acrylic paint should be completely removed from the concrete before PaveCoat® is applied.

Before applying PaveCoat® **DO NOT** acid etch the concrete if there is an existing sealer or coating on the surface because coating delamination will occur.

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Test Patch

Thorough testing is recommended before applying PaveCoat® over a previously sealed surface to ensure compatibility.

- Very old, hard sealer or problem and delaminating sealer surfaces should be thoroughly scrubbed with **Nutech Seal Repair Solution** before re-sealing - refer **Seal Repair Solution Guidelines**.
- Testing a small area using this method allowing to weather for 4-6 weeks is highly recommended.

If the new sealer on the test area fails, stripping the old sealer, acid etching and high pressure water cleaning will be required before applying new coats of PaveCoat®.

Slip Hazard

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

Adding one to three 300 gram packets of Nutech Anti-Slip Additive per 20 litres in the final coat of PaveCoat® will reduce slipping and improve pedestrian safety. Nutech Ant-Slip Additive is not adequate on steep concrete and smooth sloping concrete, therefore PaveCoat® is not recommended for sealing very steep and smooth concrete.

Refer to your Nutech specialist for alternative recommendations on steep, smooth surfaces.

Testing on site is recommended in all cases as site conditions vary widely.

Curing Time

Curing time is dependant on temperature.

TOUCH DRY PaveCoat® is touch dry @ 25°C 30 minutes.

RECOAT TIME Minimum 2 hours between coats in warm weather and longer in cool weather.

Full curing is not achieved for up to one week.

Avoid parking vehicles for seven days in cold weather and 5 days in very warm weather.

Do not park vehicles with hot tyres on newly applied PaveCoat® for at least five days.

CLEAN UP Nutech Thinners

Nutech PavcoatCS NTDS001-V2-0114.doc

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Application Warnings

Do not apply PaveCoat® late in the day as the risk of surface damage caused by dew and condensation increases. Sealer affected by moisture loses gloss and clear sealers may appear milky. If bubbles appear due to air entrapment during application, scrubbing with a solvent wet broom the next day will repair any damage.

PaveCoat® contains flammable solvents and suitable safety precautions must be taken during handling and application.

Ensure adequate ventilation if applying sealer in enclosed spaces.

Avoid contact with naked flames, sparks, pilot lights and other sources of ignition.

Avoid contact with eyes and skin.

Read “**Safety Directions**” and “**First Aid**” instructions on this container.

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.