



EPiC Epoxy100 – Two Pack

Description

Nutech EPiC Epoxy100 is a high solids solventless two pack resin system, which provides excellent protection for concrete flooring systems. It is supplied as a Part A resin and Part B hardener in clear and is mixed with clean dry silica sand for high build and self-levelling flooring and coving.

Typical Properties

Appearance:	Clear colourless viscous liquid
Total Solids Content:	100%
PH:	9.0
Per Cent Volatiles:	0%
Specific Gravity @ 25 Deg.C:	1.1
Solubility In Water g/l @ 25 Deg.C:	Immiscible
Minimum Film Forming:	15°C
Minimum Dry Film Thickness	100 microns
Recommended Application Rate	2 to 3 Sq Mtrs per Litre

Typical Features

Nutech Epoxy provides excellent chemical protection against a range of corrosives including:

- fats
- oils
- fuels
- alkali
- salt solutions.
- EPiC Epoxy100 has a high bond strength and high resistance to abrasion.
- It is impervious to water and moisture.
- Mixed with silica sand, a high strength self levelling non-slip Epoxy flooring system is achieved at a thickness of up to 10 mm and coving edges can be trowel or form constructed.
- An attractive floor is achieved by top coating with coloured Nutech EPiC Epoxy500.
- Surfaces sealed with EPiC Epoxy100 can be easily cleaned and will resist bacteria growth.
- Other non-slip additives can be used including pumice for a fine finish or carborundum for a very non slip surface.

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Typical Projects

• Concrete	• Aluminium
• Stainless Steel	• Galvanised Iron
• Blasted Steel	• Masonry Surfaces
• Laboratory Premises	• Catering Premises
• Mild Steel	• Medical
• Medical	• Motor Mechanics
• Heavy Duty Industrial	• Printing

EPiC Epoxy100 is highly recommended for food preparation areas where total moisture and vapour impervious floor barriers are required to satisfy health and cleaning requirements.

Application & Features

Equipment & Tools

Trowel

Equipment Type

Apply by a trowel.

Preparation

Acid etching of new and old concrete surfaces is recommended before coating with Nutech EPiC Epoxy100.

- The surface must be completely dry before coating.
- Mix one part EPiC Epoxy100 with up to two parts clean dry silica sand to create the desired consistency for roll or trowel application.
- Surfaces must be clean and free of oil, rust, grease or other contaminants before coating.
- Sandblasting or sanding are the preferred preparation techniques for all surfaces although acid etching or water blasting may be appropriate in some circumstances.
- Thorough degreasing is essential before acid etching or sanding.
- This may require several applications of detergents, alkaline solution and/or hot water Brush, Roller or Spray

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Mixing Ratio

Place the Part A in a clean container and blend in Part B for up to 5 minutes until homogenous.

Be careful not to aerate the mixture due to stirring too vigorously as this will generate extra heat and shorten pot life.

Allow to stand for 5 minutes and remix for at least 2 minutes before use.

Unless accurate measurement can be taken, mix the entire contents as supplied.

Pot Life

30 Minutes after mixing. The reaction is exothermic and will generate heat after mixing, the greater the volume of paint mixed the more heat generated and the shorter the pot life may become. To enable a more workable & malleable product, remove mixture from drum as soon as possible once mixed.

NOTE:

For spraying pressures and tip sizes, Applicators should source relevant information from their spray gun suppliers.

Thinning

Trowel Nil

Number of Coats

Brush, Roller 2 Coats

Spray 2 – 3 coats or minimum of 220 microns wet film thickness.

Dry and Re-coat Times

Touch Dry Normally the coating will be touch dry in 10-24 hours.

Re-coat To achieve maximum intercoat adhesion, the maximum time between coats should be 24 hours at 20°C.

NOTE:

Subsequent coats may be applied as soon as the previous coat is touch dry and no later than 24 hours after the first coat, although in very cold temperature curing can be longer than 24 hours.



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Curing Time

- Curing time is subject to ambient temperature, relative humidity, coating thickness and quantity mixed.
- To accelerate curing apply mild sustained heat less than 80 Degree Celsius.
- The coating will be fully cured in 7 days under normal temperature conditions.
- During cold weather, warming the resin to between 20°C to 30°C assists curing, before mixing with the hardener.
- Low relative humidity may retard curing times.
- During cold weather curing is assisted by warming Part A to between 20°C to 30°C before adding the Part B

Hard Cure

7 days

Clean Up

Nutech Epoxy500 Thinner

Coverage

2 to 3 Sq Mtre per Litre

All Other Information

Shelf Life

Stored in closed original containers at control temperatures the product has a 2-year shelf life.

Do not store mixed product in spray equipment to avoid damage.

Surface Temperatures

Above 10°C and below 30°C.
Application in cold and moist conditions can cause surface blushing.
Heating product before application to 20°C will prevent this.

Self-Levelling Coating & Coving

As a guide, add two parts clean dry fine silica sand to one part EPiC Epoxy100 to formulate a trowelable self level compound.

Add additional sand to create a stiff mouldable coving compound. Top coating with Epoxy500 with 24 hours is desirable to provide a smooth easily washable surface.

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Recoating Epoxy Sealed Surfaces

- Abrading or sanding existing epoxy sealed surfaces is always required before recoating to guarantee adhesion.
- Surfaces should be sanded adequately to ensure that no glossy surfaces remain before recoating.

Application Warnings

Very cold weather may retard curing times leaving a tacky surface for 3 – 4 days.

Heating the room will accelerate curing after application.

Ensure adequate ventilation and avoid naked flames for at least 48 hours.

EPiC Epic Epoxy100 is not recommended for exterior use, as early loss of gloss and surface chalking is likely due to UV damage.

EPiC Epic Epoxy100 Hardener may be irritating to the skin 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.

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.