

Epoxy 100

Description

Nutech Epoxy 100 is a high solids solventless two pack resin, 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 (Per Coat):	100 microns

Applications & Features

Nutech Epoxy provides excellent chemical protection against a range of corrosives including fats, oils, fuels, alkali and salt solutions. It 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 Epoxy 100.

Surfaces sealed with Epoxy 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. Epoxy 100 is highly recommended for food preparation areas where total moisture and vapour impervious floor barriers are required to satisfy health and cleaning requirements. Other recommended uses include, heavy-duty industrial, printing, motor mechanics, medical, catering and laboratory premises.

Application Guidelines

Refer to the Epoxy 100 Material Safety Data Sheet and the Nutech Concrete Sealer Application Guidelines for complete product and safety information before using any Epoxy product. Epoxy products are highly flammable and skin contact should be avoided. Ensure adequate ventilation at all times. Seek immediate medical advice if safety or health issues arise.

Apply by roller or trowel subject to viscosity. To achieve maximum intercoat adhesion, the maximum time between coats should be 24 hours at 20°C. Subsequent coats may be applied as soon as the previous coat is touch dry and no later than 24 hours after the first coat. 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 degreasing, acid etching and 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.

Preparing Surfaces

Acid etching of new and old concrete surfaces is recommended before coating with Nutech Epoxy 100. The surface must be completely dry before coating. Mix one part Epoxy 100 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.

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Curing Time

Curing time is subject to ambient temperature, relative humidity, coating thickness and quantity mixed. Normally the coating will be touch dry in 10-24 hours, although in very cold temperature curing can be longer than 24 hours. 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.

Mixing

Place the Part A in a clean container and blend in Part B for at least 5 minutes with a high speed drill. Allow to stand for 10 minutes and re-drill for at least 2 minutes before use. Unless accurate measurement can be taken, mix the entire contents as supplied. Once mixed the coating has a pot life of approximately 3 hours after mixing. Stored in closed original containers at control temperatures the product has a 2-year shelf life.

Self-Levelling Coating & Coving

As a guide, add two parts clean dry fine silica sand to one part Epoxy 100 to formulate a trowelable self level compound. Add additional sand to create a stiff mouldable coving compound. Top coating with Epoxy 50 with 24 hours is desirable to provide a smooth easily washable surface.

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.

Epoxy 100 is not recommended for exterior use, as early loss of gloss and surface chalking is likely due to UV damage.

Epoxy 100 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.

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

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.