

Aqua Epoxy

Description

Nutech Aqua Epoxy is a high strength two pack floor coating which provides excellent protection for concrete and steel surfaces against chemical attack, corrosion and wear. Aqua Epoxy is supplied as a resin and hardener in clear and a range of standard colours.

Typical Properties

Appearance:	Clear colourless or tinted viscous liquids
Total Solids Content:	40%
Per Cent Volatiles:	60% (Non Flammable)
Specific Gravity (Coloured):	1.3
Specific Gravity (Clear):	1.07
Solubility In Water:	Infinite
Maximum Pot Life	2 hours
Minimum Film Forming Temperature:	15°C.
Minimum Dry Film Thickness (per coat):	100 microns
Recommended Application Rate	Two coats @ 8 square metres per litre per coat

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 Nutech Anti-Slip Additive, silica sand, pumice or carborundum, a high strength slip resistant flooring system can be produced. Surfaces sealed with Aqua Epoxy can be easily cleaned and will resist bacteria growth. Aqua Epoxy 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 Aqua Epoxy Material Safety Data Sheet and the Nutech Concrete Sealer Application Guidelines for complete product and safety information before using any Epoxy product. Aqua Epoxy is non flammable but skin contact should be avoided. Ensure adequate ventilation at all times. Seek immediate medical advice if safety or health issues arise.

Apply by brush or short nap roller. To obtain 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 detergent, alkaline solution and/or hot water.

Mixing

Place Aqua Epoxy Part A in a clean container and blend in Epoxy Part B for at least five minutes with a high speed drill. Allow to stand for 10 minutes and remix for 2 minutes before use. Thorough mixing is essential. Unless accurate measurement can be taken mix the entire contents of Part A and Part B. Once mixed the coating has a pot life of approximately 1-2 hours after mixing. Stored in closed un-mixed original containers

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at moderate temperatures the product has a two-year shelf life. During cold weather, curing is assisted by warming Part A to between 20°C to 30°C before adding Part B. Low temperatures and relative humidity may retard curing times.

Once the pot life of maximum of 2 hours has been exceeded **DO NOT** continue to use this product as the Aqua Epoxy will appear usable but will deliver a white, powdery and low strength finish. Discard whatever material that exceeds the 2 hour pot life.

New And Old Concrete Surfaces

Acid etching of new and old concrete surfaces is recommended before coating with Nutech Aqua Epoxy. The surface does not have to be completely dry before coating as Nutech Aqua Epoxy will tolerate damp but not wet conditions. Dilute the first coat 10% with water to ensure surface penetration. A second undiluted coat is recommended for best performance.

Curing Time

Curing time is subject to ambient temperature, relative humidity, coating thickness and quantity mixed. Normally the coating will be touch dry in 2-4 hours, although in very cold temperature curing can be longer than 6 - 8 hours. To accelerate curing apply mild sustained heat less than 80°C. The coating will be fully cured in 7 days in normal temperature conditions.

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.

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

Aqua Epoxy does not contain flammable solvents but suitable safety precautions must be taken during handling and application.

Ensure adequate ventilation if applying sealer in enclosed spaces.

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.