

Nutech Aquafloor

Description

Nutech Aquafloor is a two pack hydroxy functional thermosetting and cross-linking Water Based Polyurethane acrylic with proven durability and performance required for high grade coatings. The coating provides excellent colour, hardness and scuff resistance and is recommended for a wide variety of applications including commercial and industrial floors and walls. It is also highly recommended as a clear protective coating over decorative concrete floor treatments.

Typical Properties

Appearance:	Opaque viscous liquid
Total Solids Content:	40%
pH:	8 - 9
Per Cent Volatiles:	60%
Specific Gravity:	1.1
Solubility In Water:	Soluble
Minimum Film Forming Temperature:	10 Degrees C.
Minimum Dry Film Thickness:	130 microns in two coats
Recommended Application Rate:	Two coats @ 8-10 sq. metre per litre per coat

Applications & Features

Nutech Aquafloor is used for a wide variety of applications where traditional floor paints, paving and epoxy coatings, furniture finishes, industrial air dry and baking paints are used. The product has excellent exterior and interior durability with high resistance to solvents, corrosion and abrasion after full cross-linking has developed. Standard formulations supplied by Nutech are highly suited for floor coatings.

Nutech Aquafloor is highly durable and resistant to oil and most household chemicals including solvents. Nutech Aquafloor is highly petrol resistant and suitable for petrol stations and vehicle repair workshops.

Supplied in clear and a wide range of colours Nutech Aquafloor is designed to provide a decorative and protective coating for a wide range of concrete paving, plant and equipment and other building applications. Nutech Aquafloor provides excellent adhesion, weather and waterproofing protection and an exceptionally hard wearing scuff resistant surface. Designed as a two coat system on most surfaces, Nutech Aquafloor provides excellent protection against fading and powdering of oxide colours, staining and marking due to contaminants including foodstuffs, oil and grease. Nutech Aquafloor is non-fading and resistant to discolouration.

Application Guidelines

Refer to the Nutech Aquafloor Material Safety Data Sheet for complete product and safety information before using. Nutech Aquafloor is non-flammable and skin contact should be kept to a minimum. Ensure adequate ventilation at all times. Seek immediate medical advice if safety or health issues arise.

Application by broom, roller, or brush is recommended subject to suitable surface preparation. If sprayed full respiration equipment is required.

Sealing New Concrete Surfaces

It is very important to clean all new concrete before applying Nutech Aquafloor. Refer to Nutech Floor preparation guidelines for complete preparation details of new and old concrete floors and motor repair workshops in particular. Check for oil or contamination on the surface by conducting a water droplet test before coating. If the water beads on the surface additional preparation will be required. The best method is

Nutech Aquafloor

to thoroughly degrease the floor if necessary, high-pressure water blast (>2000 Psi) to remove concrete salts and dust (efflorescence), dirt and contamination. Acid etching the surface is also recommended to improve surface porosity. This includes slate impression concrete, polished or ground concrete, stone dust and colour hardened concrete, steel towelled concrete and smooth towelled joint and border lines. Broom a mixture of 1 part Hydrochloric Acid to 15 parts clean water on the concrete and allow to penetrate for several minutes. Thoroughly flush the surface with water to remove the acid solution and allow to dry completely before sealing. The first coat of clear or coloured AquaFloor must be diluted with 20% water to assist penetration into the concrete. Adding between 3 to 4 litres of Water to 20 litres of Nutech Aquafloor on plain concrete and up to 25% Water for hardened, topping coloured and smooth steel towelled concrete is recommended for the first coat. Do not dilute the second or subsequent coats. On very porous concrete thinning of the first coat is not required.

Do not apply excessively thick coats of AquaFloor as through curing will be retarded, particularly in cold weather. Apply each coat at approximately 6 to 8 square metres per litre per coat.

More than two coats of a light colour may be required on concrete or when over coating a darker surface or if a thicker wet look gloss finish is required.

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 Nutech Aquafloor can prevent the appearance of white salts. Although Nutech Aquafloor will prevent surface powdering of the concrete, it will not appreciably increase the hardness of the concrete surface. Soft or damaged concrete should not be coated with Nutech Aquafloor without special surface treatment to stabilise and harden the concrete.

Sealing & Resealing Old Concrete

It is important to remove all grease, oil, food, contamination and flaking paint before sealing or re-sealing. Nutech Grease Magic should be used to remove oil and grease. Soaking heavy stains with Grease Magic before high pressure water cleaning is recommended. All cleaners, chewing gum, food, silicon and acrylic paint should be completely removed from the concrete before Nutech Aquafloor is applied. Use a water bead test to check for contamination. Thorough testing is recommended before applying Nutech Aquafloor over a previously sealed surface to ensure compatibility. Before applying Nutech Aquafloor do not acid etch the concrete if there is an existing sealer or coating on the surface because coating delamination could occur. Very old, hard sealer or problem and delaminating sealer surfaces should be thoroughly scrubbed with Nutech Seal Repair Solution before re-sealing (refer SRS application instructions). It is recommended that a small area is tested using this method and left to weather for at least 4-6 weeks. 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 Nutech Aquafloor.

Slip Hazard

Sealing of smooth and sloping concrete surfaces will reduce pedestrian and vehicle safety. Adding one or two 300 gram packets of Nutech Anti-Slip Additive per 20 litres in the final coat of Nutech Aquafloor will reduce slipping and improve pedestrian safety. For greater slip reduction sprinkle clean dry quartz sand or carborundum can be sprinkled on the wet freshly applied surface of the first coat and encapsulate with a subsequent coat of Nutech Aquafloor. Testing is recommended before proceeding to ensure that a potential slip hazard is avoided. As a general guideline Nutech Aquafloor is not recommended for sealing very steep and smooth concrete. Refer to your Nutech specialist for alternative recommendations on steep, smooth surfaces.

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.

Nutech Aquafloor

Pot Life & Curing Time

The pot life after mixing is approximately 6 hours subject to temperature. Through curing time is dependant on temperature. At 25°C Nutech Aquafloor will touch dry in 2 hours. Allow a minimum of 16 hours 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 Nutech Aquafloor for at least one week.

Other Surfaces

Refer to your supplier for additional surface preparation and application information relating to application on steel, non-ferrous metals, natural or artificial stone, masonry or clay tiles and timber.

Application Warnings

Do not apply Nutech Aquafloor late in the day as the risk of surface damage caused by dew and condensation increases. Coating affected by moisture loses gloss and may appear milky. AquaFloor is not recommended for sandstone, limestone or other soft surfaces where high moisture permeability is required.

Avoid contact with eyes and skin. Read "Safety Directions" on container. Refer to Nutech Material Safety Data Sheet for full safety and transport details.