

# AQUAGUARD 101

## PURPOSE:

To provide both a protective and waterproof coating for concrete, masonry and other structures

## PROPERTIES

- Water-proofing: stops leaks and withstands hydrostatic pressures over 276KPA (40 psi)
- Water-based 2 part epoxy resin
- Withstands up to 28m head of water
- Eliminates mould, mildew and moss
- Resists grease, detergent, sugar solutions and most mild chemicals
- Effective whether applied from inside or outside
- Can be applied by brush, roller or spray
- Available in white matt or may be tinted to pastel colours
- Dries in 4 hours. May be recoated after 8 hours
- Nonflammable and odourless
- Can be applied to fresh uncured concrete, dry or damp substrates of cement, brick, masonry, fibrolite, timber & other surfaces.
- Strong adhesion
- Approved for potable water
- Will bond to grease or oil contaminated surfaces

AVAILABILITY: Packed in equal parts A & B pails 2 litre, 4 litre & 10 litre capacity and available from NUPLEX INDUSTRIES their trade distributors and licensed applicators

## RECOMMENDED USES:

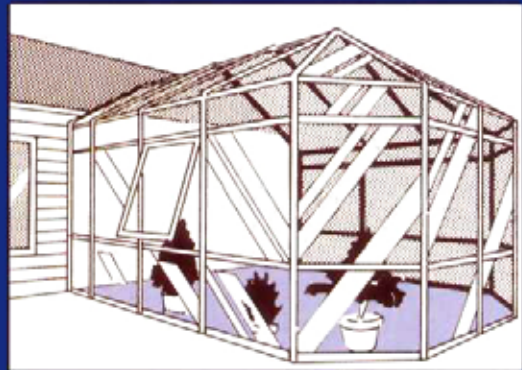
- Below ground level basements and carparks
- To prevent leaks in concrete tanks, troughs and reservoirs
- To waterproof floors prior to laying carpet, vinyl and tiles etc.
- Lift wells and concrete block walls
- To provide a total sealant for concrete slab constructions
- For treating interior walls prior to sheeting with panels, painting or wall papering
- To restore waterproofing to top of floor slabs in absence of or damage to damp proof sheeting



Damp walls and floors can be sealed and waterproofed from the inside.



Aquaguard 101 makes waterproofing as easy as painting



Existing concrete slabs can be waterproofed with Aquaguard 101 to allow application of conventional flooring, carpet, synthetic grass or Terraflake in add-on conservatories.



**NUPLEX**  
CONSTRUCTION

PRODUCTS

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## APPLICATION

### A) Surface Preparation

It is essential that concrete surfaces are prepared well. Aquaguard 101 works by bonding tenaciously to **concrete** surfaces. All paint, adhesive or other coatings must be removed.

On concrete surfaces the weak concrete surface layer must be removed by grinding, shotblasting, or acid etching. Acid etching has proved simple and effective with Aquaguard (remember Aquaguard bonds to damp surfaces).

Paint and/or adhesive is removed by the use of commercial angle grinders, water blasting or sand blasting.

Aquaguard will not work if it is applied to paint, flaking paint or adhesive.

**Cracks or floor joints:** Aquaguard will not fill or cover large cracks. Fill these with Araldite K130 or K125 prior to application of Aquaguard 101.

### B) Mixing and Application

Ensure that you have **part A** and **part B**. Mix them individually. Add them in measured equal volumes. Stir until uniform with an electric drill and paint stirrer.

Once mixed the product may be applied with brush or roller. Apply evenly. The first coat should make the surface uniformly white (not grey). This implies the application of the correct coverage rate of the material.

As soon as the surface can be walked on, the second coat may be applied. **Normally** the two coats are applied on subsequent days. Allow one full day to cure prior to the application of adhesive, levelling compounds etc.

**Drying Conditions:** Aquaguard 101 cures by first **drying** and then the **curing** of the epoxy system occurs. Good ventilation to remove moisture vapour must be available. Open windows and doors. Heat rooms if very cold. Warmth and air movement help cure. Under poor conditions, **white cement** can be used to accelerate the cure. Add one cup (300mls) of white cement to 4 litres of mixed Aquaguard 101. Mix well and apply quickly, as the pot life will be shortened.

NOTE: MINIMUM APPLICATION TEMPERATURE +10°C

## USE UNDER TOPCOVERINGS

Aquaguard 101 is used to stop moisture coming up under vinyl, carpets, tiles etc. For use under vinyl certain techniques must be used as Waterbased adhesives will not dry between the Aquaguard 101 and vinyl i.e they are both impervious. Contact adhesives may be used to bond the vinyl to the Aquaguard 101. A layer of floor levelling compound (eg: Nuplex screed systems) is often used over the Aquaguard 101 to absorb adhesive moisture. This has been found to be effective.

## FLOOR LEVELLING

Old floors often require both waterproofing and floor levelling. It is essential that the Aquaguard 101 is applied first to the prepared concrete. Floor levelling compounds are then applied to the Aquaguard 101.

N.B Prior to the installation of floor levelling compounds it is advised to prime the Aquaguard 101 with Lockfast Neoprime. This should be left no longer than 2 hours prior to the installation of the FLC. If a longer time elapses a further coat of Neoprime is to be applied.

## USE ON GREASE/OIL CONTAMINATED FLOORS

Aquaguard 101 will bond well **provided** the floor has been well detergent washed, rinsed and wet-vacuumed.

## COVERAGE RATE

It is important that the correct volume is applied. AQUAGUARD 101 forms a waterproofing **membrane** and is dependent on correct application rate.

1 <sup>st</sup> coat:	2.5m <sup>2</sup> /litre
2 <sup>nd</sup> coat:	4m <sup>2</sup> /litre

## MIX RATIOS

Either by volume or weight, 1:1 part A and B.

## PRODUCT REQUIREMENTS

Total requirement (2 coats) is worked out on 1.5m<sup>2</sup>/litre  
Example: 12m<sup>2</sup> floor requires 8 litres  
(4 litres A plus 4 litres B)

## FILM BUILD

1 <sup>st</sup> coat:	400 micron (.016") wet
2 <sup>nd</sup> coat:	250 micron (.010") wet
Total dry:	250 micron (.010")

## THINNING

Not recommended, but may be thinned up to 10% with clean potable water.

## TINTING

May be tinted to pastel colours with universal paint stainers up to 10% by volume in **part A** before mixing two parts.

## DRY TIMES (25°C 50% RH)

Surface dry:	4 hours
Hard dry:	24 hours
Full cure:	7 days
Pot Life( mixed):	2 hours

Do not use beyond pot life. If overcoating with solvent based products allow at least 4 days to cure.

## CLEAN UP

Warm water and detergent. Semi gelled material may be removed with Nuplex Universal Cleaning solvent.

## CAUTION

- Prolonged contact may cause mild skin sensitisation in some individuals.
- Provide adequate ventilation in confined areas.
- Do not allow condensation to form on film during cure.

## PRODUCER STATEMENT:

Nuplex Industries Ltd state that Aquaguard 101 is fit for the purpose of waterproofing interior surfaces against reverse osmotic pressure and hence conforms to the relevant parts of the New Zealand Building Act. A 15 year warranty applies upon compliance with our technical application details.

## FULL TECHNICAL DATA ON AQUAGUARD 101 IS AVAILABLE FROM NUPLEX.



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