TERRAFLEX

REINFORCED ACRYLIC DECKING MEMBRANE

DESCRIPTION:

Terraflex is a fibreglass reinforced waterproofing deck membrane. It is liquid applied in-situ to adapt to the design and shape of the area being waterproofed. It is based on a high quality, durable acrylic resin.

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FEATURES:	**BENEFITS**:
Aquaguard 101 Basecoat	Proven adhesion to a variety of substrates in difficult environments
Single component body coat	Easy to use and apply
Durable acrylic system	Long life, UV stable, Light Foot traffic suitable.
Colour choice	Light colours only recommended
Water resistant	Long life

RECOMMENDED USES:

- Decks, patio's, suspended decks, roofs
- For use over concrete and well fixed plywood

LIMITATIONS:

- For use for exposed deck surfaces only (ie uncovered).
- It is dependent on a stable, non-moving, substrate.

SURFACE PREPARATION:

Concrete

Allow full 28 days cure time after the concrete pour. Diamond grind the concrete to prepare the concrete prior to priming. Ensure surfaces are clean/dry and free from surface contaminants. Check falls and reset falls if necessary using Lockfast Floor Levelling Compound (FLC).

Plywood Decks/Roof

Fixing of the plywood is critical. The plywood should be CCA treated, minimum 17.5mm thickness. Allow 1-2mm between sheets when laid. The plywood should be mastic bonded to the framing timber and stainless steel screw fixed. Most failures of these systems are due to excess movement due to inadequate fixing of the plywood. Stainless steel screw fix. Fixing should be at 150mm perimeter centres and 200 internal centres. Fixing heads must be sub-surface. Flush fill all screw heads and sheet joints using Nuplex Fairing Cream. Allow good falls to allow water run-off. Sand all joints flush. Sand total surface.

Note: The coating contractor should carefully inspect the substrate work prior to commencement. Any unsatisfactory areas to be corrected.

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For Both Concrete and plywood.
Plan all upstands carefully and ensure that any cladding has good cover over the upstands. 150mm overcover would be a minimum. A kickout at the top of any upstands to prevent water blowing up is recommended. Also any doorways should have waterstops to prevent driven water.

Priming

Prime all substrates as prepared with Aquaguard 101. This should be applied as one coat at approximately 5m²/mixed litre. Mix and apply Aquaguard 101 as per data sheets and specification. Allow the Aquaguard 101 to cure 24 hours prior to proceeding. Take care to apply Aquaguard 101 into joint areas with a brush. Take care to treat surface and prime all vertical wall areas i.e. coves.

Application Conditions

Products such as Terraflex require **good drying conditions** to allow water to evaporate from the coating. Do not apply in temperatures less than 10°C or when wet weather is likely. Good **air movement** is the best method of drying waterbased products.
Working in hot, dry windy conditions will be difficult as the material will setup too rapidly. Study weather forecasts to ensure that the material will be fully and through dry prior to any rain.

Joints

All joints should be taped prior to the full membrane application. Joints will require Nuplex 100mm reinforcing tape. Use slip joint lap (Joint safe tape) prior in any high movement areas. Wider strips will be needed to form coves. In all cases, apply a heavy coat of Terraflex body coat and lay in the CSM strip and apply a further body coat. Immediately use a metal laminating-roller (refer to Nuplex range) to bring the body coat up through the CSM. Use a garden sprayer to apply a **fine water mist**. This ensures that the Terraflex is fluid and wets the glass readily.

Allow to fully dry (test), prior to the full membrane installation.

MEMBRANE:

Following priming and joint preparation, roll a full coat of Terraflex body coat over the whole surface. Include roll- downs into drains and cove ups behind flashings. Lay the 300gsm mesh into the body coat. Allow minimum 75mm overlaps. This is a critical step and take care this minimum 75mm overlap is achieved. Roll the entire surface with a laminating roller. This will bring up the body coat through the mesh. It is **important** that the pressure of the roller brings material up, rather than trying to force it down. This process ensures the **inside of the CSM** is "wetted" by the Terraflex. The sufficient quantity is indicated by surplus spots being forced up by the action of the roller. Apply a second coat of Terraflex wet on wet and roll evenly.

Allow these coats to dry (test thoroughly dry) and follow with a third coat of Terraflex. Allow to dry and glaze surface with one thin coat of Terraflex tinted appropriately. Allow to dry.
Apply sealant to all areas as appropriate.

Note

Terraflex is a membrane; some blistering and peaking on joints often occurs due to the plywood/slab expansion and contraction.

COVERAGE:

Aquaguard 101 Primer	5-8m²/Lt
1st body coat Terraflex	1m²/Lt
Chopped strand mat	1m²
2nd body coat Terraflex	3m²/Lt
3rd coat Terraflex	6-8m²/Lt
Glaze coat	8m²/Lt

It is important that more **thinner** coats are applied, rather than fewer thicker coats. Excessively thick coats retard drying and may lead to blisters.

Requirements for 100m²

- 20 lt kit of Aquaguard 101 (10 lt A + 10Lt B)
- 100m² roll Chopped fiberglass matt
- 10 x 15lt Terraflex.
- 1 – 2 x 10lt pails Tinted Terraflex

CLEAN UP: All components clean up in water.

MAINTENANCE:

Inspect yearly.
Membrane peaking is indicating deck movement. Inspect.
Re-apply Terraflex as appropriate.
Low wear decks should be recoated every 5 years with Terraflex.
Do not allow wear to damage fibres of the CSM material.

HEAVY DUTY AREAS: Include a second layer of mesh in the 3rd body coat of Terraflex and add a 4th coat to the system. This markedly improves wear and impact resistance. Edge and step details may be further reinforced in this way.

PRODUCER STATEMENT

Nuplex Terraflex complies with B2 durability providing regular inspections are undertaken and reglazed as appropriate (every 5 years or more often depending on wear). Specifically excluded is cracking in substrates, which exceeds the movement capability of the Terraflex system. The user should note that wrinkling or seaming is due to substrate movement.

Nuplex Industries Ltd state that the Terraflex system is compliant with the Building Act.

This technical data sheet is to be read in conjunction with other relevant technical data sheets. If any doubt or confusion exists please contact Nuplex Industries Ltd, Construction Products Division.