

# Technical Data Sheet

## Ultratuff 001FC - Liquid Waterproofing Membrane *allnex*

### DESCRIPTION:

Ultratuff 001FC Liquid Waterproofing is a reinforced waterproofing membrane. It is liquid applied in- situ to adapt to the design and shape of the area being waterproofed.

### TYPICAL FEATURES | BENEFITS:

- High flexibility.
- High solid equals high film build.
- Very good water resistance & early water resistance.
- Choice of colours if exposed.
- Quick drying.
- High elongation.
- Latex based.



### RECOMMENDED USES:

- Window Rebates
- Decks under tiles
- Upstand waterproofing
- Decks, patio's, suspended decks (top coated with Flexiglaze)
- Bathrooms under tiles
- Roofs (top coated with Flexiglaze or Coloured Granule chip)

### NOT RECOMMENDED:

- All decks, roofs and floors should have a positive fall.
- Exterior exposed areas (not covered) must be over-coated with Flexiglaze.
- Ensure good drying conditions during laying. Cross air movement is very important.

### HEALTH & SAFETY: Refer safety data sheets (SDS).

- Wear gloves wherever possible.
- Wash hands with warm, soapy water after any skin contact.
- Re-seal all containers tightly.

### SURFACE PREPARATION:

The surface must be clean and sound.

#### Preparation- Preliminary Work

Ensure that preliminary work, such as formation of falls, flashing rebates, grooves and ducts, provision of battens, rounded edges, fillets and overflows, installation of vents and countersinking edges and outlets, is complete and properly constructed to enable the Ultratuff 001 FC System to work as intended.

This work and the substrate need to be smooth, clean and dry.

## Falls to Gutters | Wastes

Minimum; as proscribed by local bodies.

- Roofs 1:30
- Decks 1:40
- Gutters 1:100

Confirm that the substrate, including falls, surface finish, fillets, sumps, countersinking terminations and projections, will permit Ultratuff 001FC work of the required standard.

## Concrete Substrate

Ensure concrete substrate is cured for a minimum of 28 days, graded to correct falls, wood float finish, no sharp edges, clean and free from debris.

- Acid etch, grind or shot blast 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 allnex Lockfast Floor Levelling Compound (FLC).
- Cracks in the concrete substrate are to be chased to allow for the application of a 15mm wide x 3mm deep Silicon Modified Paintable (SMP) bead of sealant (Simson ISR 70-50 supplied by Bostik) or similar, to act as a joint filler and bond breaker.

## Plywood | Compressed Sheet Substrate

### Exterior

Ensure that sheets have been installed correctly:

- Butt- jointed
- Glued and fixed with Stainless Steel screws,
- No lumps or hollows, smooth, free of debris and dry.
- All upstands to be filleted
- All downturns to have rounded edges rounded off.
- Staggered installation
- To correct falls, and are rigid with flush butt joints,
- Sanded smooth.
- Rainwater outlets countersunk as required for drainage.

### Internal only - Strand-board etc.

Ensure this board has not deteriorated due to water exposure.

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- Butt- jointed
- Glued and fixed with screws,
- No lumps or hollows, smooth, free of debris and dry.
- All upstands to be filleted
- All downturns to have rounded edges rounded off.
- Staggered installation
- To correct falls, and are rigid with flush butt joints,
- Sanded smooth.

## APPLICATION:

### Priming – Metal

Apply a suitable metal anti-corrosion primer to all metal surfaces.

Subsequently; Aquaguard 101 is applied at a rate of 5-6 sqm /Lt - one coat.

- Dying Time – Aquaguard 101 - 48 hours @20°C

### Priming – Other Surfaces

Aquaguard 101 is applied to all substrates at a rate of 5-6 sqm /Lt - one coat.

- Dying Time – Aquaguard 101 - 48 hours @20°C

### Bonding Promoter

Subsequently, the Aquaguard 101 shall be primed, to ensure adhesion, with allnex Duraseal at a rate of 7 sqm /Lt - one coat

- Allow to fully dry immediately prior to the application of Ultratuff Body-coats.
- Do not allow to pond.
- Duraseal should be laid over as soon as dry and within 24 hours of application.
- Dying Time - Duraseal - 30 -60 minutes @20°C

### Joint Reinforcement

- All sheet joints are to be over-spatuled with 15mm wide smear of Silicon Modified Paintable (SMP) bead of sealant (Simson ISR 70-50 supplied by Bostik; or similar) to act as a joint control measure / semi- bond breaker.
- A coat of Ultratuff 001FC is to be applied over the joint/crack area and a 100mm wide detail strip of 300g/m<sup>2</sup> fibreglass mat or reinforcing polyester cloth tape is to be rolled into the membrane. (Note the polyester cloth tape will dry quicker than fibreglass.)
- A coat of Ultratuff 001FC is applied over the mat to completely saturate the mat and eliminate all pin holes.

### **Main Reinforcing Layer - 1<sup>st</sup> Stage**

- Once the joint reinforcing has cured, apply evenly by way of a long nap roller sleeve the first body-coat of Ultratuff 001FC at a spread rate not exceeding 1.1m<sup>2</sup> to the area to be laid up including all upstands/walls.
- A wet edge must be maintained across the work face to allow the next section of Ultratuff 001FC to be worked in without showing a ridge.
- Install the pre – prepared 300gsm chopped strand matt into the wet Ultratuff 001C body-coat.
- The fibreglass matt is to be worked with a “Parsley Cutter” (laminating roller) to bring the resin through the matt thus ensuring a complete “wetting out”.
- Allow to dry

### **\*\*Note Well\*\***

The material should look and feel completely dry (reinforced membrane should be allowed to cure overnight) before the areas can be accessed or additional coats applied.

Touch the surface with force to ensure the product has through- dried and has not just surface skinned- off.

Humidity, non-porous surfaces, limited ventilation and temperatures below 20°C will increase drying times.

Good cross air movement will assist drying.

### **Drying times**

Average drying time is 1 hour at 20°C in low humidity.

If reinforcing mat is included in application average drying time is 3 hours at 20° in low humidity.

### **Optional – Tiled Areas**

The addition of Fibreglass Reinforcement is also recommended to areas to be protected by Tiles and not subject to foot traffic where only a single layer of reinforcing over junctions & joints is normally required.

### **Main Reinforcing Layer – 2<sup>nd</sup> Stage**

- Pin holes and or shrinkage cracks must be filled with Simson ISR 70-50 sealant before the application of the second coat.
- Application is to commence at floor to wall joints. A strip of 300g/m<sup>2</sup> fibre glass reinforcing mat 200 -300 wide is to be bedded into the Ultratuff 001FC which is to be applied to wall and deck surfaces.
- The surface of any PVC rainwater outlets shall be scuff sanded. The mat is to be laid over the outlet flange plate and turned down into the waste finishing with a clean edge.
- The second body coat of Ultratuff 001FC is to be applied at right angles to the first body coat at 1.5-2.0m<sup>2</sup>/t.
- This second coat is applied to completely saturate the detailing mat. The mat is to be worked against the wall and deck surfaces and tightly into the junction with a brush to eliminate wrinkles, bridging and furring of the mat.
- When the second application of the Ultratuff 001FC is complete and dry; no pin holes, thin spots, perforations or lumps should be evident.
- A minimum of 1.2mm dry film thickness must be achieved.
- Re-check for pin-holes and/or shrinkage cracking in areas of heavy application. (E.g. internals and angles). If these exist, then “smear” fill them with Simson ISR 70-50 supplied sealant.

### **Optional - Anti - slip trafficable coating**

The Ultratuff 001FC is applied at the rate of 0.6 - 0.8 litre/m<sup>2</sup> with a goop loop or long nap roller cover to provide a texture.

### **Optional - Very smooth finish**

Apply a further coat of Ultratuff 001FC with surfacing tissue to create a finish that shows less of the mat visible.

### **Areas not covered with Tiles**

The Ultratuff 001FC must be over-coated.

The external trafficable UV stable top coat Flexiglaze can be applied by brush or roller to develop a minimum dry film build of 80 microns.

The coating is to be applied by brush or roller at right angles to the previous coats. To ensure even consistent coverage, apply in two coats at 9m<sup>2</sup> / lt / coat.

### **Optional**

May also have the application of decorative coloured aggregate (Refer: allnex Construction Products)

### **Movements Joints**

Form and flash movement control joints as designed in accordance with the allnex Technical Specifications.

### **Finishing**

Finish all Ultratuff 001FC installation, detailing, terminations and over flashings to a fully weatherproof condition, to ensure performance of the Ultratuff 001FC installation as intended.

### **Foot Traffic**

Foot traffic is not allowed on the Ultratuff 001FC installation after laying until cured. Foot wear with high heels with narrow hard soles is

not allowed.

### **TILING:**

The surface must be clean and dry

- Can be Tiled 24hrs after final coat is completely dry -however; usually 48hrs

### **Primer**

The surface needs to be primed with

- ASA Multiprime 2 part, in accordance with the ASA instructions.  
or
- allnex Neoprime

### **Tile Adhesives**

Suitable adhesives are:

- ASA Accelerflex mixed with ASA Fixall or ASA Conflex  
or
- allnex Unifloor

### **Tile Grouting**

- Grouting must be done after the adhesive has fully cured.
- Movement joints must be provided as per the tiling standards.
- Tile within seven days or lay a protection sheet over the membrane until tiling or covering.
- Ensure membrane that is going to be left exposed once Tiles are laid is first protected by 2x coats of Flexiglaze.

### **Tile Movement Joints**

- Movement Joints must be provided as per the tiling standards.

### **MATERIAL USAGE:**

	<b>Material</b>	<b>Coverage</b>	<b>Quantity for 100m<sup>2</sup></b>	<b>Units for 100m<sup>2</sup></b>
Primer	Aquaguard 101	5-6m <sup>2</sup> /lt	14lts	10 lt A + 10lt B
Bonding agent	Allnex Duraseal	7 m <sup>2</sup> /lt	14	1 x 20lt
Body coat #1	Ultratuff 001 FC	1.1m <sup>2</sup> /lt	90lt	6 x 15lts
Fiberglass mesh	300gsm Chopped strand mat	1m <sup>2</sup>	100 m <sup>2</sup>	1 roll
Body coat #2	Ultratuff 001 FC	1.5m <sup>2</sup> /lt	65 lts	4 x 15lts
UV protection; if required.	Flexiglaze low sheen	8m <sup>2</sup> / lt / coat; 2 coats required	12.5 lts	2 x 10lts
				(Total 10 x 15lt Ultratuff 001 FC)

### **Access Boards**

Provide access boards and protection to Ultratuff 001FC for later operations and remove when no longer needed.

### **Acceptance**

Arrange for an inspection of the completed Ultratuff 001FC work.

### **Subsequent Work**

Make good any Ultratuff 001FC cut or damaged by later work, by cutting out, filling in or overlaying damaged area with Ultratuff 001FC application as required. Repairs can be neatly made in an Ultratuff 001FC installation at any time.

### **Clean-up**

Clean up as work proceeds. Utensils and minor spills can be cleaned with water if still wet. Cured material can be cleaned with Xylene.

### **Leave**

Leave work to the standard required by following procedures, as described in the specification.

### **Remove**

Remove debris, unused materials and elements from the site.

## PRODUCER STATEMENT AND GUARANTEE:

allnex Ultratuff 001FC is guaranteed for 15 years from the date of completion providing regular inspections are undertaken and re-glazed as appropriate, if necessary (every 5 years depending on wear). Specifically excluded is cracking in substrates, which exceeds the movement capability of the Ultratuff 001FC system. The user should note that wrinkling or seaming is due to substrate movement.

allnex New Zealand Ltd state that the Ultratuff 001FC system is compliant with the Building Act E2 & E3.

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

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The logo for allnex, featuring the word "allnex" in a bold, lowercase, sans-serif font. The letters "a", "l", "l", and "n" are white, while the "e" and "x" are colored in a gradient of purple, blue, and green. A thin horizontal line is positioned above the "e" and "x".

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