

# Technical Data Sheet

## Terraflex Fibre-reinforced Deck Coating System



### 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.

### TYPICAL FEATURES | BENEFITS:

- Laminated system
- Long life, UV stable, Light Foot traffic suitable.
- Light colours only recommended
- Single Component
- Will conform to complex shapes, upturns and downturns.
- Terraflex is compliant with NZBC within B2 Durability and E2 water ingress.
- Terraflex is 15-year durable as Terraflex is an exposed membrane.
- Easy to use and apply
- Fully bonded system
- Easily cleaned.
- Weatherproof
- Durable acrylic system



### PERFORMANCE DATA:

Properties	Values	
Minimum Thickness:	1mm	
Minimum Application Temperature: Air	+10°C	
Maximum Application Relative Humidity: Air	85%	
Aquakem Primer Coat:		
~ Surface Dry:	+25°C ~50%RH	4 hours
~ Hard Dry:	+25°C ~50%RH	48 hours
	<i>Ready for application of the Terraflex Body-coats</i>	
Terraflex		
~ Recoat time	+25°C ~ 50%RH	> 4 hours between coats
	<i>Dependent of weather conditions</i>	

### RECOMMENDED USES:

- Decks, patio's, suspended decks, roofs, plant rooms.
- For use over concrete and correctly installed Fibre cement or plywood.
- For waterproofing complex shapes e.g. balustrades; curved surfaces, curved balustrades. Multi-directional shapes

### LIMITATIONS:

- For use for exposed deck surfaces only. i.e. uncovered.(No Artificial Grass, Tiles, Mats etc.)
- It is dependent on a stable, non-moving substrate. This is particularly true for plywood which must be well fixed. Terraflex does not hold a weakly installed deck together.
- Terraflex is a membrane; some blistering and peaking on joints often occurs due to the plywood/slab expansion and contraction.
- Structural movement will lead to the sheet substrate moving and this is often expressed at sheets joints and peaking of the membrane at that point.
- Do not apply in multiple wet layers or apply so thickly so that it does not through dry. Ensure each layer is fully through dry before proceeding. Otherwise blisters may occur.
- Application to uncured concrete (minimum recommended cure 28 days). Application to damp surfaces. (Refer to allnex)
- Application to unstable or defective substrates without approved remedial treatment prior to installation.
- Application below +10C.
- Application to unstable or defective substrates without approved remedial treatment prior to installation.

## TERRAFLEX SURFACE FINISH | NON-SLIP OPTIONS:

Terraflex Type	Description	Description	CF Rating	SRV Rating	R Rating	Non - Slip
	Installation Type	Surface Finish Type	NZ/AS 3661.1 1993	AS/NZS 4586		Application Rates
Type A -1	Exposed Finish - On Deck	<i>Exhibits Fibre Reinforcement pattern.</i>	0.46	41	R11	
Type A -2	Exposed Finish - On Deck  For very smooth requirements such as coves and upstands; a layer of surfacing matt is added into the system. <i>Refer: Ultratuff Specification.</i>	<i>Smooth Shows less Fibre reinforcement pattern.</i>	N/A	N/A	N/A	
Non-Slip Class 1	Exposed Finish - On Deck  Finished with :- ~ Gloop Loop Roller	Fine non-slip	0.54	50	R11	
Non-Slip Class 2	Exposed Finish - On Deck Medium duty aggregate: non-slip: Roller applied with the addition of:- ~ J61 Sand ~ Q900  <i>Broadcast into the wet Ultratuff coating with further coats over the aggregate Broadcast.</i>	Fine – Silica Sand Fine – Medium Garnet	0.63 0.73	57 64	R12 R13	3.0 kg / m <sup>2</sup>
Non-Slip Class 2A	Exposed Finish - On Deck Medium duty aggregate: non-slip: Roller applied with the addition of:- ~ Quartzite  <i>Broadcast into the wet Terraflex coating with further coats of Clear Aquaglaze UV Topcoats</i>	Fine – Coloured Aggregate	0.63	57	R12	3.0 kg / m <sup>2</sup>

## FALLS TO GUTTERS | WASTES

Minimums; or as proscribed by Regulatory Building Code or Local Authorities.

Falls	
Roof	1:30
Decks   Balconies Maximum Deck Area 40m <sup>2</sup> Substrate ~ Fibre Cement Compressed Sheet ~ Suspended Concrete Slab	1:40 1:60
Gutters ( <i>fall to waste</i> )	1:100 minimum

## STZ PREFILL SYSTEM (*for adding falls, slope modification and floor angles*).

Types: *Refer: STZ Prefill Technical Literature.*

The falls must be specified pre-tender. (*Terraflex is thin film coating system and prefill may involve significant extra materials*).

The quantities of materials required to raise the floor height at wall perimeters is often underestimated.

To do this may involve significant extra costs and should be discussed and agreed.

It is a very common for allnex Screed 20+ (*allnex Supaset for smaller areas*) to be used under Terraflex to create falls to drains and other filling applications.

Normally for new work falls are laid in the concrete and fall to drains.

However, in refurbishment situations the drains and falls are incorrect. Sometimes new drains are installed.

The Screed 20+ can be installed to any thickness to create falls.

## HEAVY DUTY AREAS:

Includes a second layer of mesh in the 3<sup>rd</sup> body coat of Terraflex and add a 4<sup>th</sup> coat to the system.

This markedly improves wear and impact resistance.

Edge and step details may be further reinforced in this way.

## COLOUR OPTIONS:

- Generally Light Grey BS00A01 – May be tinted to other light colours

## MOVEMENT JOINTS:

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

## FOOT TRAFFIC:

Foot traffic is not allowed on the Terraflex installation after installation, until cured.

Foot wear with high heels with narrow hard soles is not allowed.

## PRODUCER STATEMENT AND GUARANTEE:

allnex Terraflex 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 Terraflex system.

The user should note that wrinkling or seaming is due to substrate movement.

allnex New Zealand Ltd state that the Terraflex 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 and the Terraflex Method Statements/Specifications.

If any doubt or confusion exists please contact allnex Industries Ltd.

## 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.

## MAINTENANCE and CLEANING:

- 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

## QUALITY ASSURANCE:

The allnex approved Applicator shall ensure all QA checks have been undertaken prior to the installation process and subsequently during the installation process. The completed documentation must be made available to allnex and the client/clients authorised personnel.

The product is to be installed within the required control range to ensure a fully cured hard wearing monolithic floor coating system.

Information to be recorded daily is:

- Concrete sub-base or prefill mix.
- Sequence of mixing, ratios and quantities and formula.
- Ambient temperature | Ambient relative humidity.
- Material batch numbers used.
- Substrate moisture content & Substrate temperature.
- Daily detail of licenced contractors on-site

Date: March 2023

Replaces: Dec 2019

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