

# Technical Data Sheet

## Traxite VE – Resin Flooring Resurfacing System



### DESCRIPTION:

Traxite is a non-slip, in-situ, trowel applied system designed to provide a hard wearing, non-slip floor surface and for the reinstatement, upgrading of existing Sureshield | Industrial Terrazzite and Surechem VE.

The system consists of a resin base which is applied to a primed substrate. The chosen aggregates are applied to the wet resin in excess. Once cured, the excess is removed and the bound aggregates are over-coated.

The colour may be contributed to by means of coloured aggregates. These aggregates are artificially coloured in a range of bright attractive finishes. They may be blended as required.

### TYPICAL FEATURES | BENEFITS:

- Rapid Cure: Full system may be installed within an 8hr period.
- Excellent abrasion resistance (6 times that of basalt concrete).
- Excellent impact resistance:
- Cured Film is non-toxic
- Suitable for use in dry or wet situations including ramps.
- Traxite VE has been specifically designed to provide excellent all-round chemical resistance at both end of the pH scale i.e. concentrate acid and alkali compounds.
- Chemical resistance and general physical properties can be improved by *POST CURE TREATMENT*.
- Excellent slip resistance. Specification is needed of the degree required \*Note\* Please read detail within
- Good resistance to thermal shock. When cured, will perform at all normal in-service temperature ranges.
- Will not support bacteria or fungal growth. Contains STERISHIELD to retard microbial growth.
- Good weathering resistance. May chalk and exhibit slight discolouration when subjected to prolonged UV exposure. This will, however, not detract from its general durability and chemical resistance.
- Excellent chemical resistance.
- Excellent adhesion to properly prepared substrate.
- Easily cleaned. Waterblast resistant.
- Not moisture permeable

### COLOUR OPTIONS:

- Traxite VE Resin may be tinted to closely match the colour of the natural aggregates that are generally used in Sureshield | Industrial Terrazzite & Surechem VE Flooring Systems -  
The tinting of the Primer and Basecoat Resins only will even out the overall colour of the floor.

#### Note

*The Top-coats are not generally tinted and if done will detract from the overall appearance of the finished floor.  
(Refer allnex Construction Products for advice if requiring a tinted Top-coat Option)*

- The clear resin may also be used with natural coloured aggregate or coloured quartz.  
The colour may be contributed to by means of coloured aggregates. These aggregates are artificially coloured in a range of bright attractive finishes. They may be blended as required.

### ALLNEX SPECIFICATION:

These are specialist systems for specific high chemical resistant requirements and advice should be sought from allnex Construction Products for a specific recommendation for your installation.

Before



After



**PERFORMANCE DATA:**

Properties		Values	
Minimum DFT Thickness:		3mm	
Minimum Application Temperature: Air		+12°C	
Maximum Application Relative Humidity: Air		85%	
In-service temperatures - wet : on fully cured system		-50 to +82°C	
Chemical Resistance		Resistant to chemical spillage –cured 7 days at +25°C. Refer: <a href="#">Chemical resistance chart</a>	
Heat resistant		+82°C Note: temperature resistance is lowered when combined with certain chemicals & temperatures	
Flexural strength		130MPa	
Flexural modulus		3.3 GPa	
Tensile strength		76MPa	
Moisture absorption: ASTM D570-63		0.04%	
Slip resistance		R13 Refer: <a href="#">Slip resistance chart</a>	
Weight per m <sup>2</sup> @ 3mm thickness		4.4kg	
Hard Dry		+25°C ~ 75%RH	3* hours
Light Foot Traffic		+25°C ~ 75%RH	5 hours minimum*
Recoat Time		~ Minimum ~ Maximum	+25°C ~ 75%RH 1 hour 24 hours After 24 hours: Requires special preparation
Full Use - Unrestricted		+25°C ~ 70%RH	18 hrs.

**RECOMMENDED USES:**

For the Rejuvenation and Reinstatement of the Non-slip Profile in many areas where a high degree of chemical, mechanical and slip-resistance is of prime importance:

- Beverage Processing: Bottling Plants | Breweries | Fruit Juice | Wine etc.
- Dairy Factory Floors. CIP areas | Main Process Halls/Rooms | Tanker Bays
- Seafood Processing: Wet Fish | Shellfish | Freezers | Chillers | Cool Stores etc.
- Interior/exterior use.
- Suitable for use in dry or wet situations including ramps.

**LIMITATIONS:**

- Application to damp surfaces or when surface dew point has been reached.
- Application to unstable or defective substrates without approved remedial treatment prior to installation.
- Application below +12C.
- Application where fumes may contaminate adjacent foodstuffs.*(This only applies in the installation stage - up to 3 hrs after installation)* *(refer: to allnex Surecote 500AR for odour free installations).*
- Application over existing coatings/toppings other than Sureshield | Industrial Terrazzite and Surechem VE.
- Ceramic tiles without specific written allnex design specification.
- Refer to allnex chemical resistance data.
- Whitening/Blooming: Traxite VE surfaces will go white if exposed to water or dew point condensation from walls before it is fully cured. Take great caution that working areas are protected from water or condensation during the curing Period. This may be cleaned off; see cleaning / maintenance doc.
- If the substrate is an above grade slab and additional waterproofing is required, then tank the floor and coved upstands with a layer of 450gsm CSM fibreglass. This will provide a seamless waterproofing layer.

**CHEMICAL RESISTANCE CHART**

Test Procedure	Observation	Results
Total immersion.	Checked for chemical attack and hardness throughout the testing period.	Taken after 3 weeks exposure.

Test Media	Concentration	Traxite VE	Test Media	Concentration	Traxite VE
<b>ACIDS</b>			<b>ALKALIS</b>		
Hydrochloric Acid	37%	U	Potassium Hydroxide	30%	A
Sulphuric Acid	70%	U	Caustic Soda	50%	U
Acetic Acid	70%	M	Sodium Hypochlorite	Refer allnex	Refer allnex
Hydrofluoric Acid	20%	EF <i>may attack aggregate</i>			
Nitric Acid	30%	U	<b>SOLVENTS</b>		
Nitric Acid	40%	EF*	Ethanol		M
Citric Acid	SAT SOLN	U	Toluene		A
Lactic Acid	All	U	Acetone		D
Phosphoric Acid	85%	U	Isopropanol		U
Oxalic Acid	SAT	U			
Hydrogen Peroxide	35%	U			
Hydrogen Sulphide	All	U			
<b>PETROCHEMICALS</b>			<b>DISINFECTANTS   CLEANERS</b>		
Kerosene		U	Detergent (DET 18)	100%	U
			Bleach Sod Hyd Cl	2.5%	M
			MEKP – M50		A
<b>OTHERS</b>					
Sugar Syrup	30%	U	<b>SALT SOLUTION</b>		
Distilled Water		U	Brine	SAT SOLN	U

**LEGEND:**

<b>U</b>	Unaffected (i.e. after 3-week exposure the samples have not changed)	<b>M</b>	Marked (Short term exposure, the test media will leave a mark on the sample)
<b>A</b>	Attacked (Short- or long-term exposure, the mechanical properties will deteriorate)	<b>D</b>	Destroy (Short- or long-term exposure, damage will occur)
<b>EF</b>	Evaluate Further	<b>*</b>	Staining May Result

Solutions are Aqueous unless otherwise stated

**NON-SLIP:- floor definitions:**

The contractor shall ensure that the surface finish in all zones is agreed with the client.

*(Samples to be supplied and agreed prior to start of the contract)*

allnex rating	Description	CF Rating	SRV Rating	R Rating	Examples	Topcoat Requirements	
	Installation Type	NZ/AS3661.11993	AS/NZS 4586		Completely homogeneous floor areas	Number of coats	Spread Rate per litre
NR3.A	<b>Medium duty non-slip:</b> Q900 non-slip aggregate is broadcast into the wet surface. This is a full spread applied to excess. Once cured the excess aggregate is removed. Follow this with roller applied topcoats	0.73	64	R13	Continually Wet areas with non-slip required. e.g. Light duty Meat, Fish. Wet area Bakery.	2 1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat	2.5m <sup>2</sup> 4.0m <sup>2</sup>
NR3.B	<b>Heavy duty non-slip:</b> 18/36 (or Grit Silver Grey) non-slip aggregate is broadcast into the wet surface. This is a full spread applied to excess. Once cured the excess aggregate is removed. Follow this with roller applied topcoats	0.73	64.5	R13	Heavy duty e.g. Butchery, abattoirs Fish Processing	2 1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat	2.5m <sup>2</sup> 4.0m <sup>2</sup>
NR4	<b>Very sharp non-slip:</b> 18/36 (or Grit Silver Grey) mixed 50/50 with Silicon carbide (or Aluminium Oxide) non-slip aggregate into the wet surface. This is a full spread applied to excess. Once cured the excess aggregate is removed. Follow this with roller applied topcoats	0.73	64.5	R13	Heavy duty processing areas with extra slip hazards.	2 1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat	2.5m <sup>2</sup> 4.0m <sup>2</sup>
NR5	<b>Specialised very heavy-duty non-slip:</b> <i>Refer: allnex for a specification.</i>	0.73	64.5	R13			

**Note**

*The aggregates must be broadcast into the wet Traxite VE body coat; not into the topcoat.*

*Ensure the contractor supplies information on the above non-slip ratings and provides a cured sample showing the surface finish.*

**SUBSTRATE: – Preparation**

All substrates shall be stable and solid.

**Note**

*All control joints junction cracks in the substrate etc. are to be properly treated.*

**EXISTING RESIN FLOORING:**

- Remove all contaminants and any other material likely to affect the adhesion of the Traxite VE
- Prepare the existing Resin Floor by mechanical abrasion method to CSP4-5
- Ensure the floor is dry and free from Dew Point

allnex Construction Products should be consulted when installing allnex Traxite VE to any Resin Flooring on suspended floor slabs.

**COVES:**

Coves are to remain smooth.

**RESIN FLOORING DETAILS**

*Refer: Typical Resin Flooring Details Document.*

**FALLS TO WASTES:**

STZ prefill system (for adding falls, slope modification and floor angles).

Falls may not be adequate in the existing resin floor toppings and require remedial prior to the installation of the Traxite VE Non-slip resurfacing system

Types: *Use PE Prefill - Refer: STZ Prefill Technical Literature.*

The falls must be specified pre-tender. *(Traxite VE is minimum 3mm thick 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 STZ prefill system to be used over existing Sureshield 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 Prefill can be installed to any thickness to create falls.

If the project is a food processing facility, ensure that your requirements fall within the guidelines of current legislation.

### Floor Fall Definitions

1:50	Liquids will free run to drainage
1:80	Liquids will migrate to drainage
1:100	Some ponding of liquids will occur, squeegee to drainage will be required.

#### JOINTS:

All control and construction joints in the resin floor topping should be carried through the Traxite VE.

### Jointing Options

Control   Construction Joints	Cold Joints   Non-Movement Joints
allnex K130 or allnex Sabre Seal SMP60	allnex K130 or allnex Sabre Seal SMP60

#### QUALITY ASSURANCE:

The allnex approved Contractor 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 topping 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.

#### CLEANING & MAINTENANCE:

##### Cleaning:

*Refer: Cleaning Maintenance Document*

##### Repairs:

Can be undertaken with further new Traxite VE applied directly.

##### Resurfacing:

allnex recommend **two** (2) options:

- Re-aggregating with Traxite VE.
- A second option is Nuthane Traxite which offers a monolithic and non-slip coloured finish, with no odours.  
*(Refer: allnex Construction products for advice on the suitability of this option for the chosen environment)*

#### FIXING OF PLANT AND MACHINERY:

Mechanical fixings into the substrate must be resin fixed. This is to ensure that there is no water migration into the substrate. Conventional expanding plugs, screws or anchors are not an acceptable fixing method.

#### PRODUCER STATEMENT:

allnex Construction Products state that:-

Traxite VE is compliant with the following when used to resurface Sureshield or Surechem VE:

- HACCP International Certification.
- E3 Internal water 3.1.1e.
- D1 (Access routes / slip resistance wet & dry).
- Complies with CLEANROOM and controlled environment:-AS/NZS ISO 14644.4: 2002 section E.2.1.4 Floors:-
  - That the floor shall be non-porous, slip resistant, abrasion resistant and resistant to chemicals.
  - That they shall support static and dynamic loads.
  - Complies with fire ratings.

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

- Contractors are to comply with all current legislation when using this product.

Date: Dec 2021  
Replaces: Aug 2020

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

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