

# Specification

## Traxite



<b>PREPARED FOR:</b>	
<b>CONTRACT:</b>	Installation of Allnex Construction Products Traxite Colourfine Floor Finishes.  Project:
<b>DATE:</b>	Dec 2019
<b>SCOPE:</b>	<ol style="list-style-type: none"><li>1. General Conditions of Contract.</li><li>2. General assessment and scope of work.</li><li>3. Pre Start Execution</li><li>4. Substrate requirements &amp; surface preparation.</li><li>5. Installation Allnex <b>Traxite Colourfine – Epoxy</b></li><li>6. Application of Coves, Drains, Up -stands</li><li>7. Installation of Control Joints / Sealants etc.</li><li>8. Maintenance</li><li>9. Cleaning</li><li>10. Quality Assurance</li><li>11. Protection of the Work</li><li>12. Warranty</li><li>13. Approved Installation Companies</li><li>14. Documents to be consulted along with this specification</li></ol>
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<b>NOTE:</b>	For <b>Project Specific Specifications</b> contact allnex construction products for advice  CS.ConstructionNZ@allnex.com

## 1.0

### GENERAL CONDITIONS OF CONTRACT

- 1.1 All materials shall be installed using best trade practices and in accordance with the manufacturers recommendations or instructions.  
If any doubt exists please contact Allnex Construction Products Limited for advice.
- 1.2 Materials may only be installed by approved contracting companies using staff skilled in the installation of all products covered by this specification.  
Contractors are to make available senior skilled staff to supervise the work while in progress.
- 1.3 The applicator shall take reasonable steps to protect the general public, his work and adjacent surfaces during the time that his work is in progress.
- 1.4 Applicators are required to provide an acceptable Health and Safety programme which meets all the requirements of the current "Health & Safety in Employment" legislation. Applicators must also comply with any other relevant government legislation or local body laws, regulations or requirements.
- 1.5 The applicator is to provide samples showing colour and finish for final approval by the client or his consultant prior to commencing work on site.
- 1.6 This specification is to be read in conjunction with relevant product information and conditions of contract which may be issued by the client.
- 1.7 The applicator is to inspect all areas to be treated and must be satisfied that the surface is satisfactory to receive the proposed Allnex flooring system. If any doubt exists it is the responsibility of the applicator to seek advice from Allnex Construction Products.
- 1.8 Any warrantee required will be supplied by the applicator contractor and backed up by allnex's agreement with them.  
Refer Section 12 Below
- 1.9 Allnex Q.A. procedure and documentation is to be accurately recorded and kept on site during the contract. Allnex Construction Products reserves the right to inspect this documentation at any time. A copy of all relevant Q.A. information is to be returned to Allnex within one month of completion of the work on site.
- 1.10 No substitute materials

## 2.0

### GENERAL ASSESSMENT

- 2.1 This specification has been prepared to detail the requirements required and ensure client understanding as to the synthetic resin wall & floor toppings being proposed for the afore-named project by Allnex Construction Products.
- 2.2 Applicators will be required to work closely with the main contractor and / or their designated co-ordinator / consultant to minimise disruption as a result of any work undertaken. Specific time requirements and logistics are to be negotiated directly between the applicators and the main contractors **authorised personnel**.
- 2.3 Any change required during the course of the contract must be in **writing**.
- 2.4 The main contractor is to organise the removal of necessary equipment, plant etc prior to the commencement of the contract.
- 2.6 Provision for falls to drains / pre-filling etc is to be discussed, priced and confirmed in writing, prior to the commencement of the contract.
- 2.7 All flooring is to comply with slip co-efficient of friction requirements to ensure compliance with NZ/AS 3661:1993.
- 2.8 If for any reason the applicator is unable to carry out the installation of the Allnex Flooring System in accordance with this specification, and relevant material data sheets, it is the responsibility of the applicator to bring this to the attention of the client and / or Allnex Construction Products in writing. This must be done prior to the commencement of the work.
- 2.9 The Allnex Traxite Colour fine system is also suitable for upgrading and resurfacing existing sound resin floor topping systems. Consult Allnex Construction Products for specific project advice.

- 2.10 Contractors are required to clean up all debris etc from the work area once their work is completed.
- 2.11 Technical Data  
Refer to [www.allnexconstruction.co.nz](http://www.allnexconstruction.co.nz) for any data.  
Refer to Allnex guides for preparation of walls & floors
- 2.12 Materials  
Note Well\*

**Revathane Glaze is the only allowable Topcoat.** This will provide clarity of colour and a non - yellowing finish.

Materials	System
Primer	Supascreed Primer
Bodycoat	Surecote 500 (Resin & Hardener) Selected Quartzite Aggregate
Coves	Supascreed (Resin & Hardener) Selected Quartzite Aggregate J61 Silica Sand
Topcoat	1 <sup>st</sup> Topcoat: Surecote 500 (Resin & Hardener) 2 <sup>nd</sup> Topcoat: Revathane Additional Topcoats: Revathane
Floor Joints	K130
Sealants	Formwall Polyurethane Sealant
Cove Capping Detail	STZ Cove Strip 5.2 Or 9.2 Rebate

- 2.13 Other installation requirements  
Allnex specified mixing equipment  
Allnex specified application equipment

- 2.14 TRIMS AND EDGING  
TBC

### 3.0 PRE-START EXECUTION

- 3.1 STORAGE  
Accept all materials and accessories undamaged and dry.  
Store drums, pails and aggregates upright with other material on level surfaces in non-traffic, non-work areas that are enclosed, clean and dry.
- 3.2 HANDLING  
Avoid damage to drums and accessories.
- 3.3 PREPARATION  
Record batches and stock numbers. Follow the Allnex requirements for preparatory conditioning of materials working temperatures and conditions before, during and after application of the selected systems. Protect work from solar heat gain.
- 3.4 DO NOT START  
Work shall not commence until the building is enclosed, all wet work is complete and good lighting is available. For external applications protect the work area from adverse climatic conditions.
- 3.5 INSPECT  
Inspect the substrate to ensure it complies with the requirements of the selected finish system.
- 3.6 PROTECTION  
Protect adjoining work surfaces and finishes during the installation.

3.7 SITE SAFETY  
Ensure a site meeting has been held to acquaint other site workers with the requirement for closed access to the work area. Ensure Health and Safety requirements are understood and agreed to prior to the commencement of the contract.

3.8 TECHNIQUE  
Before beginning the installation confirm the proposed layout of material, location of control joints and other visual considerations of the finished work.

#### 4.0 SURFACE PREPARATION

##### 4.1 New Concrete

4.1.1 New concrete shall have a surface which has been mechanically trowelled to NZS3114:1987 U3 finish or better.

Note (1)

Brooming is not recommended where Traxite Colourfine is being installed.

4.1.2 A minimum compressive strength of 25 MPA at 28 days cure.

4.1.3 A minimum cure time of 28 days.

4.1.4 Have a moisture content less than 75% RH or 18% WME  
(exceptions seek further advice from Allnex Construction Products)

4.1.5 All falls and levels to be accurately laid into the concrete.

4.1.6 A suitable vapour resistant membrane beneath the concrete slab is required i.e. polythene.

4.1.7 A surface free of cement laitence and other contaminants and any roughly screeded or floated areas.

4.1.8 No traces of cure membranes.

4.1.9 Cracks in the concrete are to be chased out and filled using Allnex Supascreed and J61 sand or treated as a control joint as appropriate.

4.1.10 Deep depressions, impact damage, hollows etc to be repaired or filled using Supascreed Prefill.

4.1.11 Repair any unsatisfactory falls, levels, etc using Supascreed Prefill.

##### 4.2 Existing Concrete

4.2.1 Ensure existing concrete is sound and stable with a minimum compressive strength of 25 MPA

4.2.2 Have a moisture content less than 75% RH or 18% WME  
(**exceptions seek further advice from Allnex Construction Products**).

4.2.3 All falls and levels to be accurately laid into the concrete.

4.2.4 A suitable vapour resistant membrane beneath the concrete slab is required i.e. polythene.

4.2.5 A surface free of any roughly screeded or floated areas.

4.2.6 No traces of cure membranes.

4.2.7 Cracks in the concrete are to be chased out and filled using Allnex Supascreed and J61 sand or treated as a control joint as appropriate.

4.2.8 Deep depressions, impact damage, hollows etc to be repaired or using Supascreed Prefill.

4.2.9 Repair any unsatisfactory falls, levels, etc using Supascreed Prefill.

## 4.2 Existing Tiles

### 4.3.1 Remove the existing tiles and tile bed

It is possible to overlay some existing tile systems however in this instance the tiles and bed require removing and a new prefill screed laid to the new drainage falls is required.

## 4.4 SUBSTRATE PREPERATION

4.4.1 Refer to separate allnex floor preparation document for full details.

Mechanically abrade the concrete surface to remove all surface laitance, all contaminants including, dirt, grease, oil, fats, existing coatings and also any areas of unsound substrate by captive shot blasting, grinding, scabbling, hammering as appropriate.

allnex recommend captive shot-blasting - Medium Shot Blast CSP 4 or 5.

Note (2)

Acid Etching **is not** an acceptable method of surface preparation.

4.4.2 Scabble (ramp) down the concrete to achieve an even finish where the Traxite will meet the existing concrete to provide a “no bump” transition while still providing full topping thickness at all times.

Note

Use Surecote 500 or Supascreed LA Resin for patching, re-ramping, re-coving, plant feet and to re-form joints.

**Provision for falls to drains, Free Running Drainage 1:50 Fall Required.**

*Once the existing tiles and tile have been removed the existing floor slab shall be checked,*

- i) Around the perimeter of all walls the levels shall be checked at 500mm centres and a continuous horizontal level struck based on the highest spot level found.*
- ii) Where a level floor finish is called for the highest spot level shall be found and this point will determine the base point for the floor and the wall perimeter.*
- iii) Where falls are built into the concrete floor slab the difference between the lowest (floor waste) points and the highest (level determined under (i) and (ii) above) shall be checked against the levels proposed in the documents.*

*Should the contractor find that the slab requires remedial work before he can commence his application then he shall request the main contractor to rectify the areas of defect.*

*Once the existing levels and proposed base levels are determined the existing floor slab shall be corrected (if required) using STZ Prefill.*

*If time permits then a high strength engineered screed, Allnex Screed 20+ can be used as the prefill screed (28 days curing) however if time is restricted then the STZ prefill shall be Surecote 500 resin, hardener and specifically blended aggregates.*

*See STZ Prefill Technical Data, attached separately.*

*Prefill shall be laid over all areas necessary to achieve the following results:*

- i) Around the perimeter of all walls and to all areas where a level floor finish is specified prefill shall be applied to provide a sub base level of +/- 3mm over a 3 metre grid.*
- ii) To areas where a fall is specified prefill shall be applied to provide a sub base where a line laid between the high and low points shall be of constant gradient and vary by no more than 3mm over a 3 metre length.*

*During the application of the STZ Prefill the applicator shall constantly check his work with the laser beacon and sensor to ensure accuracy.*

*The STZ prefill shall be installed in a manner that still allows the full thickness of Sureshield to be applied over that prefill.*

## 5.0

### INSTALLATION OF ALLNEX TRAXITE COLOURFINE FLOOR FINISH

- 5.1 Ensure the substrate is properly prepared and is suitable to receive the Allnex Traxite Colourfine finish.  
Install Allnex Traxite strictly in accordance with the specifications and recommendation of allnex construction products
- The colour is to be (chosen as required)
  - Cove radius is 25mm. (or as directed on the plan).
  - Upstand height is 150mm (or as directed on the plan).
  - Finish cove /upstand - smooth.
  - Aggregates shall be dry and have been box blended to ensure evenness of colour.

- 5.2 Neatly mask out and protect all areas not covered by the proposed work.

#### **Primer**

- 5.3 Apply One (1) coat of Allnex Supascreed Primer at a spread rate not exceeding 6m<sup>2</sup>/litre/coat.  
Into the wet primer broadcast sparingly the chosen aggregate.

#### Note (3)

Porous areas may require further primer coats until porosity is eliminated and a full background colour is achieved. Allow primer to become tack free.

#### **Bodycoat**

- 5.4 Accurately weigh and thoroughly mix Surecote 500 Resin and Hardener in the correct proportions in a separate container and mix until homogenous.
- 5.5 Apply evenly by way of trowel the resin body-coat mix across the area to be laid using the aggregate in the primer coat as a gauge.  
A wet edge must be maintained across the work face to allow the next section of resin to be worked in without showing a ridge.

#### Note

Allow the resin body coat to flow out to level prior to the aggregate being broadcast.

**If you do not do this ridges will show through the finished system.**

- 5.6 Evenly distribute into the wet resin body-coat to **excess** the design aggregate blend.
- 5.7 As the resin begins to show on top of the aggregate, additional aggregate is evenly broadcast until no more resin surfaces.
- 5.8 Suitable methods of distributing the aggregate are:
- Hand Broadcast
  - Hopper gun / Air driven distribution
- 5.9 This process is repeated until the area is complete.
- 5.10 As soon as the resin has hardened sufficiently (to allow walking across) all excess aggregate is to be removed by sweeping followed by vacuuming to remove dust etc.

#### Note

Take care as if the resin hasn't cured sufficiently, the aggregate will be dislodged from the surface leaving a sparse coverage that will have to be repaired and is likely to show as a "patch".

If required repeat steps 5.4 – 5.10 again to achieve the depth of colour and installation thickness.

#### **Topcoats**

- 5.11 Apply One (1) coat of the Surecote 500 at a maximum spread rate of 6m<sup>2</sup> / Litre.

#### Note

The Surecote 500 Topcoat can be diluted 10% with Methylated Spirits to aid rolling.

5.12 Apply One (1) coat of Revathane at a maximum spread rate of 4m<sup>2</sup> / litre

Note (10)

Additional Revathane Topcoats may be required in areas where a smoother finish is required.

**Observe minimum / maximum recoat recommendations**

## **6.0 APPLICATION OF COVES, DRAINS, UPSTANDS ETC**

6.1 Remove the existing tiles and adhesive, re-build the substrate wall using STZ Prefill screed or resin mortar.

Ensure the substrate is properly prepared and is suitable to receive the Allnex Supascreed Cove finish.

6.2 Install the Allnex chosen system cove detail strictly in accordance with the specifications and recommendations of Allnex Construction Products.

6.3 **Cove Reinforcement**, Apply a Fibreglass bandage to the junctions between all timber framed or insulated panel walls and floors using 450 gsm glass mat and Supascreed. Fibreglass is to extend to full height of cove/upstand and minimum 50mm onto floor.

Note

Cove reinforcement is installed prior to the installation of the Traxite Flooring.

6.4 Install Allnex aluminium STZ cove flashing to all walls at a height of 150mm (or as directed on the plan) from floors.

Ensure aluminium cove flashing is positively sealed and overlaps the fibreglass bandage.

6.5 Coves can be completed prior to or after the main floor is installed however they are best installed following installation of the floor. The floors must be protected during the cove installation.

6.6 Accurately weigh and thoroughly mix the Supascreed Cove Resin and Hardener in the correct proportions in a separate container. Add the graded aggregates (correct weight) to the mixed resin and hardener, mix until homogenous, consistent and free of lumps.

Note

The aggregate mix design for the coves shall be:

**6 parts Traxite Colourfine aggregate blend : 1 part (J61 Silica Sand).**

6.7 Apply evenly by way of trowel the Resin Cove ensuring consistency across the area. Good compaction with a minimum 25mm radius is the requirement.

6.8 Once cured de-nib and overcoat the Supascreed cove detail with two (2) coats Revathane,

## **7.0 INSTALLATION OF CONTROL JOINTS / SEALANTS ETC**

7.1 Expansion / control joints in the substrate are to be continued through the Allnex Floor finish.

7.2 Allnex recommends the use of flexible epoxy resin based control joint sealants suitable for floor movement such as Allnex K130.

7.3 Junctions between Allnex flooring and stainless steel drains etc are to be sealed using the specified system sealant.

7.4 Ensure all penetrations through the floor / coves, metal cove capping's etc are positively sealed using Formwall Flexible Polyurethane sealant.

7.5 All cold joints between sections of the Traxite flooring / coves etc may be sealed using the specified system sealer

## **8.0 MAINTENANCE**

Ease of repair is a major advantage with allnex Traxite flooring.  
Damaged areas are cut out and patched level using new materials quickly and with little disruption.

## **9.0 CLEANING**

See Separate Technical Data Attached

## **9.0 QUALITY**

A log using Allnex QA Sheets 1,2 & 3 shall be kept by the installation contractor and made available to allnex at their request. Information to be recorded daily is but not limited to:-

- a) Material Batch Numbers
- b) Sequence of Mixing ratios and quantities and formula
- c) Substrate Moisture Content
- d) Substrate Temperature
- e) Ambient Temperature
- f) Ambient Relative Humidity

**(Refer: Allnex QA Documents)**

## **11.0 COMPLETION & PROTECTION OF WORK**

The flooring contractor shall take reasonable steps to protect his work and the work of others trades during the time that his work is in progress. The General Contractor during the same time shall keep the floor areas free and clear of traffic. Thereafter, until the building is completed, it shall be the responsibility of the general contractors to protect the allnex floor finish from damage, paint droppings, or other contamination that may prove difficult to remove or detrimental to the finish floor characteristics and performance.

- Check Top Coating has removed all “boney” / ‘dry” floor and cove surfaces.
- All cove details are full and complete with no gaps that may allow water ingress.
- De-nibbing, Ensure all rough surface dags are removed from floors and coves.
- Check non-slip surface texture is as specified and even.
- Check all water falls to drains, with no ponding as specified.
- Ensure floor / topcoat is fully cured overnight prior to other trades or service.

## **12.0 WARRANTY**

Allnex will assure that all products incorporated into this specification have been manufactured to allnex quality specifications and GMP procedures.

Allnex will also assure that when correctly applied the system will meet the critical requirements of AS/NZS 1838-1994.

However given that allnex has no control over the substrate, the application environment and the application process all warranties are supplied by the installation contractor and backed by our agreement with them.

The flooring contractor shall provide a warranty for a period of:

**TBC (as required) Years**

The warranty period commences from the date of practical completion.

Damaged areas must be repaired immediately to ensure continuity of the Warranty

## **13.0 ALLNEX APPROVED REGIONAL INSTALLATION COMPANIES**

allnex will provide individual advice for specific projects and should be consulted. It is the nature of the trade that contractor skill levels, capability and experience vary.

## **14.0 DOCUMENTS TO BE CONSULTED**

- allnex Product Technical Data Sheets
- allnex Colour Formulas
- allnex Flooring Details
- allnex Cleaning Recommendations



- allnex Surface Preparation Document
- allnex STZ Prefill Document
- allnex Technical Bulletins
- allnex Exterior Installations.

This advice is given in good faith, for further advice or information do not hesitate to contact the allnex technical team.

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