

<p><b>PREPARED FOR:</b></p>	<p>Project</p>
<p><b>CONTRACT:</b></p>	<p>Installation of allnex construction products ARCHITECTURAL TERRAZZITE</p>
<p><b>DATE:</b></p>	<p>March 2020</p>
<p><b>SCOPE:</b></p>	<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. Surface Preparation.</li> <li>5. Installation <b>6.0mm</b> allnex architectural terrazzite</li> <li>6. Application Coves Upstands</li> <li>7. Application of Control joints/ Sealants etc.</li> <li>8. Cleaning Maintenance</li> <li>9. Completion &amp; Protection of the Work</li> <li>10. Warranty</li> <li>11. allnex Installation Companies</li> <li>12. allnex Documents to be Consulted</li> </ol>
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<p><b>NOTE:</b></p>	<p>For <b>Project Specific Specifications</b> contact allnex construction products for advice</p> <p>CS.ConstructionNZ@allnex.com</p>

## 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 contractor 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 contractor 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 Contractors are required to provide an acceptable Health and Safety programme which meets all the requirements of the current "Health & Safety in Employment" legislation. Contractors must also comply with any other relevant government legislation or local body laws, regulations or requirements.
- 1.5 The contractor 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 contractor 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 Contractor to seek advice from Allnex Construction Products.
- 1.8 Any warrantee required will be supplied by the licensed Allnex Contractors and backed up by our agreement with them.  
Refer section 10 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 Material Substitutions, unless by prior agreement with Allnex Construction Products

## 2.0 GENERAL ASSESSMENT & SCOPE OF WORK

- 2.1 This specification has been prepared to cover the installation of Allnex Architectural Terrazzite Resin floor topping.
- 2.2 The New Allnex Architectural Terrazzite is to be installed at 10-12mm thickness and progressively diamond ground to a minimum finished floor thickness of **6mm** to ensure maximum protection from future impact.  
Thicker finish floor thickness are acceptable providing the full marble exposure has been achieved and the client has a uniform aesthetically pleasing floor.  
The finished Architectural floor shall not vary more than plus or minus 3mm (gradual deviation) over a 3-metre span (U3).  
Often a perfectly acceptable Terrazzite floor in a large area with one or more window walls will appear to have variations greater than the above tolerances, this optical illusion is further magnified if the floor has a high polish.  
It must be noted that the Architectural Terrazzite will follow the contours of existing substrates, for this reason it is important that the sub floor have the same surface tolerances as the Terrazzite to achieve the specified flatness.

Non-conforming floors must be Prefilled or levelled (refer to “Materials” “Substrates” section 4.0 - 4.3 of this specification).

- 2.3 Contractors will be required to work closely with all projects Co-ordinator / Consultants to minimise disruption as a result of work undertaken in the existing site. Specific time requirements and logistics are to be negotiated directly between the contractor and authorised personnel.
- 2.4 Any change required during the course of the contract must be in writing.
- 2.5 Appointed Co-ordinators / Consultants are to ensure the areas are clear of other trades, clean and watertight prior to the commencement of the contract.
- 2.6 Standard Architectural Terrazzite will omit strong odours during installation and good air circulation and ventilation is required.  
**If the odour cannot be vented or could be problematic consult Allnex for alternative options: Allnex Architectural Terrazzite ZV.**
- 2.7 Provision for colour and aggregate mix is to be formally advised prior to the installation process. All variation prices should be confirmed in writing, prior to the commencement of the contract.
- 2.8 Provision for falls to drains/pre-filling etc is to be discussed, priced and confirmed in writing, prior to the commencement of the contract.
- 2.9 If for any reason the contractor is unable to carry out the Allnex Flooring Systems in accordance with this specification, and relevant material data sheets, it is the responsibility of the contractor to bring it to the attention of the client and / or Allnex Construction Products in writing **prior** to the commencement of the work.
- 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.com](http://www.allnexconstruction.com) for any data.
- 2.12 Other installation requirements  
Allnex specified mixing equipment  
Allnex specified application equipment
- 2.13 Trims and Edgings  
Refer project drawings for all trims, edging and termination detailing between the resins finishes and other surface finishes.

### **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 as necessary.

### 3.4 EXTERNAL APPLICATIONS

For external applications protect the work area from adverse climatic conditions. Refer Allnex external application technical bulletin.

Work shall not commence until the building is enclosed, all wet work is complete and good lighting is available.

Application temperatures are +5<sup>0</sup>C - +30<sup>0</sup>C

### 3.5 INSPECT

Inspect the substrate to ensure it complies with the requirements of the selected finish.

### 3.6 PROTECTION

Protect adjoining work surfaces and existing finishes during the installation. Protection includes video surveillance monitors, computers and any other dust sensitive equipment.

### 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.

Notes to be aware of include but are not limited to,

*Flammable 3<sup>0</sup>C erect no smoking signs,*

*No welding or naked flames permitted during installation.*

*Have fire extinguishers readily available.*

*Fumes may be cloying in enclosed areas, the use of fans to provide positive forced air draft and /or extraction is highly recommended.*

The levels of fumes have been shown to be well below recommended levels, see our data on emissions on our web site bulletin board.

The ZV system is solvent and odour free and may be used near foods products / food producer areas and/or adjacent to general public areas.

### 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.

Force mix / stir all resins immediately prior to use.

Ensure forced air movement is created, even in corners to ensure no dead area that will not cure correctly. Good continuous air flow not draughts.

## 4.0 SURFACE PREPARATION

### 4.1 New Concrete / Existing Concrete / Existing Toppings

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

4.1.2 Substrates must have a minimum compressive strength of 25 MPA at 28 days cure.

4.1.4 Moisture content less than 75% RH or 18% WME (exceptions seek further advice Allnex Construction Products)

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

- 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 laitance or other contaminants and any roughly screeded or floated patched or areas.
- 4.1.8 No traces of cure membranes.
- 4.1.9 Cracks in the substrate are to be bandaged using Allnex 450gsm fibreglass laminate bandage or treated as a control Joint as appropriate.
- 4.1.10 Deep depressions, impact damage, hollow etc to be repaired or filled as appropriate using a Polyester Prefill (STZ Prefill) or ZV prefill.
- 4.1.11 Repair any unsatisfactory falls, levels, etc using Polyester Prefill (STZ Prefill) or ZV prefill as appropriate to suit the proposed floor finish

**Note Well\***

All concrete, old and new must be coarsely ground or coarsely shot blasted prior to the installation of Architectural Terrazzite.  
Refer Allnex surface preparation technical bulletin.

Application to other substrates, wood, metals, cement plaster, asphalt or over existing tiles seek Allnex specific specifications or advice.  
Generally cement screeds are NOT suitable for prefills under Architectural Terrazzite.

**5.0 INSTALLATION OF ALLNEX ARCHITECTURAL TERRAZZITE FLOOR FINISH**

- 5.1 Ensure the substrate is properly prepared and is suitable to receive the Allnex Architectural Terrazzite Floor finish.

Install the Allnex Architectural Terrazzite strictly in accordance with the specifications and recommendation of Allnex Construction Products and accurately laid to a minimum finished thickness of **6.0mm**

- The colour is to be (or chosen as required)
- Floor Finish to all areas is smooth.
- Mineral fillers/aggregates shall be dry and to Allnex formula and have been box blended to ensure evenness of colour.

**Materials**

System	Architectural Terrazzite	Architectural Terrazzite ZV Zero VOC system
Primer	STZ Primer STZ Hardener	ATZ ZV Clear Primer Cobalt Surechem VE Hardener
Screed	Architectural Terrazzite Resin, colour to be chosen. White is 10A01 STZ Hardener Special marble aggregate mix	Architectural <b>ZV</b> Terrazzite Resin, colour to be chosen. White is 10A01 Cobalt Surechem VE Hardener Special marble aggregate mix

Floor Joint Sealant	Allnex K130 Epoxy floor jointing	Allnex K130 Epoxy floor jointing
Seal	Crystal Seal	Aquaclear
	Final polish system, by others	Final polish system, by others

### Material Shelf Life

18 months in unopened containers.

After this period suitability for use should be checked in consultation with Allnex Construction Products.

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

5.3 Apply 1 coat of Primer at a spread rate not exceeding 5m<sup>2</sup>/litre/coat.

Porous areas may require further coats until porosity is eliminated.

Allow primer to become tack free.

5.4 Accurately weigh and thoroughly mix the Architectural Terrazzite 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

Suggested Mix Ratio for Architectural Terrazzite is 1:4 Resin to Aggregate

Suggested Maximum Architectural Terrazzite Ratio is 1:5 Resin to Aggregate

5.5 Evenly trowel apply the Architectural Terrazzite mix across the area to be laid ensuring a well compacted minimum 10-12mm thickness is obtained.

5.6 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.

5.7 Ensure all finished edges of the Architectural Terrazzite are supported to avoid damage.

5.8 Finish Smooth – Finish utilizing a steel trowel to obtain the desired light surface texture.

5.9 Allow the Floor to cure hard

5.10 Mechanically Wet Grind the surface of the Architectural Terrazzite to expose the decorative aggregate,

5.11 Remove all slurry, dust and debris

5.12 Grout all pinholes and carry out secondary finishing grinding to design finish,

5.13 Once ground apply 2 coats of the selected Allnex sealing system at a maximum spread rate of no greater than 6m<sup>2</sup>/ Litre / Coat.

5.14 Apply proprietary cleaning polish system once the floor has been fully installed and sealed, and prior to the floor being subjected to dirt and grime.

Observe minimum/maximum recoat recommendations in all instances

- 5.15 Polishing  
The polishing system is a separate contract generally carried out by others , cleaners or in in house maintenance teams.

### **Allnex Example**

#### **Sealer | Floor Finish & Protection Materials**

Approved System:	<b>ADVANCE International Cleaning Systems</b>
Basecoat:	Pioneer Eclipse Sealer – First step sealer
Topfinish:	Pioneer Eclipse Equinox – Sta Brite 20
Maintainer:	Pioneer Eclipse - Extend Auto burnish
Cleaner:	Pioneer Eclipse Neutral Cleaner.

## **6. APPLICATION OF COVES, UPSTANDS ETC**

Architectural Terrazite can be installed vertically if it is precast off site to form cove and upstands details, consult Allnex for further advice.

## **7. INSTALLATION OF CONTROL JOINTS/SEALANTS ETC**

- 7.1 Expansion/control joints in the substrate are to be cut / continued through the Allnex Floor finish.
- 7.2 Once cut and cleaned install Allnex K130 flexible epoxy joint compound.
- 7.3 Junctions, Allnex flooring and stainless steel drains or dissimilar flooring materials or structures are to be treated as a control joint and are to be sealed using Allnex K130 epoxy sealant.
- 7.4 Ensure all penetrations through the floor/coves, positively sealed using a suitable Allnex K130
- 7.5 Any seismic joints are to be specifically designed and approved by Allnex incorporating the Allnex Unison Jointing systems

## **8. CLEANING MAINTENANCE**

See Separate Technical Data on cleaning a regular re-polishing which is required to maintain its performance

## **9.0. COMPLETION & PROTECTION OF WORK**

- 9.1 The licensed 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.

## **10.0 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

## **11.0 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.

## **12.0 DOCUMENTS TO BE CONSULTED**

- Allnex License Contractor List
- Allnex Product Technical Data Sheets
- Allnex Colour Formulas e.g. Foodstuffs Red
- Allnex Flooring Details
- Allnex Cleaning Recommendations
- Allnex Surface Preparation 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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The logo for Allnex, featuring the word "allnex" in a bold, lowercase, sans-serif font. The letters are white with a blue outline. Above the letters "i", "l", "n", and "x", there are horizontal bars in purple, blue, green, and red respectively.

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