

Specification

Terraflake



PREPARED FOR:	
CONTRACT:	Installation of allnex construction products Terraflake Floor Finishes Project:
DATE:	August 2019
SCOPE:	<ol style="list-style-type: none">1. General conditions of contract.2. General assessment and scope of work3. Pre Start Execution4. Surface requirements & surface preparation5. Application of Drain, Cove, Up-stand Detailing6. Installation of allnex Terraflake Floor Finish7. Installation of control joints, sealants8. Cleaning Maintenance9. Quality Assurance10. Protection of the Work11. Warranty12. Approved Installation Companies13. Document to be consulted along with this specification
PREPARED BY:	Colin Nolan allnex construction products Ph - +64 3 366 6802 Cell +64 21 956 160 E-mail – colin.nolan@allnex.com www.allnexconstruction.com
NOTE:	For Project Specific Specifications contact allnex construction products for advice CS.ConstructionNZ@allnex.com

1. 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 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 application contractors and backed up by our agreement with them.
Refer Section 11 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

2. GENERAL ASSESSMENT & SCOPE OF WORK

- 2.1 This specification has been prepared to detail the requirements and ensure client understanding as to the synthetic resin wall & floor toppings being proposed for the afore-named project by Allnex Construction Products.
The correct installation will increase the durability, life expectancy and aesthetics of the facilities and will also provide site personnel with a safe working environment.
- 2.2 Contractors will be required to work closely with the main contractors or designated co-ordinator /consultant to minimise disruption as a result of work undertaken in during the extension build project. Specific time requirements and logistics are to be negotiated directly between the contractor and **authorised personnel**.
- 2.3 Any change required during the course of the contract must be in **writing**.
- 2.4 Authorised personnel are to organise the removal of necessary equipment, plant etc. from the work or adjacent areas as required prior to the commencement of the contract.
- 2.5 Allnex Terraflake Systems are available in no odour options: however materials or food products and packaging likely to be affected by the installation process e.g. fumes, dust should be removed from the area.
- 2.6 Provision for falls to drains/prefilling etc is to be discussed, priced and confirmed in writing, prior to the commencement of the contract.
- 2.7 Floor Slip Resistance is to be confirmed and agreed prior to installation. Contractor samples submitted where required.
- 2.8 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.

- 2.9 The Allnex Terraflake system is suitable for upgrading and resurfacing existing sound resin floor toppings. 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 for any data.
Refer to allnex guides for preparation of walls & floors

2.12

Materials	
Primer & Basecoat	Aquachem
Coloured Terraflake	Selected Allnex Flakes
Topcoat Options Topcoat *No Smell Option Topcoat *Rapid cure Option	Revathane Aquaclear Rapid Clear
Coves	Superset or Supascreed Epoxy
Floor Joints	Allnex K130
Non-Slip Aggregate	Revtred,
Sealants	Allnex Formwall Polyurethane Sealant
Cove Capping Details	STZ Cove Strip as designed 5.2 or 9.2 rebated

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

- 2.14 Trims and Edging
Refer project drawings for all trims, edging and termination detailing between resin floor finishes and other surface finishes.

3. 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
Do not start work before 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 SUBSTRATE REQUIREMENTS & SURFACE PREPARATION

4.1 New & Existing Concrete

- 4.1 Substrates shall have a surface which has been mechanically trowelled to NZS3114:1987 U3 finish or better
- 4.2 A minimum compressive strength of 25 MPA.
- 4.3 A minimum cure time of 28 days. (exceptions seek further advice Allnex Construction Products)
- 4.4 Moisture content less than 75% RH or 18% WME (exceptions seek further advice Allnex Construction Products)
- 4.5 All falls and levels to be accurately laid into the concrete.
- 4.6 A suitable vapour resistant membrane beneath the concrete slab is required i.e. polythene.
- 4.7 A surface free of cement laitance or other contaminants and any roughly screeded or floated / patched areas.
- 4.8 No traces of cure membranes.
- 4.9 Cracks in the concrete are to be bandaged using Allnex 450 gsm fibreglass tape bandage or treated as a control joint as appropriate.
- 4.10 Deep depressions, impact damage, hollow etc to be repaired or filled as appropriate using Allnex Supaset or Supascreed prefill.
- 4.11 Repair any unsatisfactory falls, levels, etc. using Allnex Supaset or Supascreed prefill as appropriate.

SUBSTRATE PREPERATION

Refer to separate 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

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

5. APPLICATION OF COVES, UPSTANDS

The most durable and impact resistant cove is installed onto a solid nib wall detail. Coves onto insulated panel or other lightweight walls are more prone to damage due to potential movement of the panel.

- 5.1 Ensure the substrate is properly prepared and is suitable to receive the Terraflake Cove finish.

- 5.2 Install Terraflake Cove detail strictly in accordance with the specifications and recommendation of Allnex Construction Products.
- 5.3 **Cove Reinforcement**, Apply a Fibreglass bandage to the junctions between all timber framed or insulated panel walls and floors using 300gsm glass mat and Aquachem resin. The fibreglass is to extend to full height of cove/up-stand and minimum 50mm onto floor.

Fibreglass is only required on walls other than concrete.

If insulated panel walls are used these must be reinforced using 300gsm glass matt and Supascreed epoxy resin, the coves in this situation are to be formed using Supascreed epoxy resin.

- 5.4 **Cove Capping**, 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.
- 5.5 Accurately weigh and thoroughly mix the chosen cove system in the correct proportions in a separate container. Add the graded aggregates (correct weight) to the mixed resin, mix until homogenous, consistent and free of lumps.
Apply the cove detail, either Superset, or Supascreed to the specified radius and height.
- 5.6 Evenly trowel apply the Cove consistently across the area ensuring good compacted and a minimum 25mm radius is obtained.

Once cure de-nib, remove all surface rough dags and over coat with the Terraflake system

6.0 INSTALLATION OF ALLNEX TERRAFLAKE WALL & FLOOR FINISH

1.0mm Thick Terraflake Mosaic Walls

1.5mm Thick Terraflake Mosaic Flooring

Outline Specification	
Terraflake Thickness	Minimum 1mm
Colour	chosen as required from allnex Terraflake colour chart or bespoke sample
Cove Radius	25mm, 50mm, 75mm or to match existing
Upstand Height	To follow existing
Cove / Upstand Finish	Smooth
Floor Finish to be:	Smooth – back rolled Non – slip to areas as prescribed
Anti- Slip Broadcast Finish (where required)	As Designed
Anti – Slip Broadcast Finish Technique Full Over-seed	Evenly distribute into the wet resin screed to excess the design aggregate blend as specified. As the resin begins to show on top of the aggregate, additional aggregate is evenly broadcast until no more resin surfaces. Allow the Terraflake to fully harden then remove all excess aggregate and continue with finishing coats as required

- 6.1 Ensure the substrate is properly prepared and is suitable to receive the Terraflake Cove finish.
- 6.2 Install Terraflake detail 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 plans)
- Up-stand height is 150mm (or as directed on the plans)
- Finishes to coves and up-stands to be smooth
- Flakes shall have been box blended to ensure evenness of colour.

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

6.3 Accurately weigh and thoroughly mix the Aquachem Resin and Hardener in the correct proportions in a separate container and mix until homogeneous.

6.4 Apply 1st coat of Allnex Aquachem, at a spread rate not exceeding 3m²/litre and allow to cure for 24hours

6.5 Apply a Second Coat Aquachem at a spread rate not exceeding 3m²/litre

Note There must be no unevenness of colour in the second coat of Aquachem as this will appear as discolouration in the finish floor.

6.6 Evenly distribute into the second coat of Aquachem to excess the design Terraflake blend approximately 0.5kg /m²

Suitable methods of distributing the flakes are:

- Hand distribution
- Hopper gun

6.7 Allow to fully cure
In colder temperatures curing may be extended in excess of 24 hours.
Good air flow will assist drying process.

6.8 Remove the excess flakes by scraping and vacuuming.

6.9 Apply 3 coats Revathane glaze at a spreading rate of 4m²/ litre / coat on consecutive days.

Care must be taken on the application of the first coat of Revathane, if the product is “overworked” it may burn the flakes.

Alternative Top Coat Option

Apply 3 /4 coats Aquaglaze UV at a spreading rate of 4m²/ litre / coat.

Alternative Top Coat Option

Apply 2 coats Rapidcoat at a spreading rate of 4m²/ litre / coat.

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

Observe Minimum / maximum recoat recommendations

6.10 Anti-Skid Finish (optional)

Apply Revtred to selected areas at a spreading rate to achieve desired non-skid, the Revtred is applied into the second “wet” coat of topcoat then sealed with a subsequent coat finish.

Samples should be submitted prior to project start to determines degree of anti-slip required.

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 Only suitable flexible epoxy resin based control joint sealant suitable for floor movement is to be used such as Allnex K130,

7.3 Junctions, Allnex flooring and stainless steel drains etc. are to be sealed using Allnex K130 epoxy sealant Allnex

7.4 Ensure all penetrations through the floor/coves, metal cove capping etc are positively sealed using a suitable Flexible Polyurethane sealant

8.0 MAINTENANCE

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

9.0 CLEANING MAINTENANCE

See Separate Technical Data Attached

10.0 QUALITY ASSURANCE

A log shall be kept by the licensed Allnex contractor and available to Allnex at their request. Information to be record daily is

- 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

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 License Contractor List
- Allnex Product Technical Data Sheets
- Allnex Colour Formulas
- 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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