

Specification

Surecote 200



PREPARED FOR:	
CONTRACT:	Installation of allnex construction products; Surecote 200 Floor Finish. Project:
DATE:	August 2019
SCOPE:	<ol style="list-style-type: none">1. General Conditions of Contract.2. General assessment and scope of work.3. Pre Start Execution4. Substrate requirements & surface preparation.5. Installation allnex Surecote 2006. Optional Clear Over-glaze7. Optional Profile Finish8. Optional Coves, Drains, Up -stands9. Installation of Control Joints / Sealants.10. Maintenance11. Cleaning12. Quality Assurance13. Protection Of Work14. Warranty15. Approved Installation Companies16. Documents to be consulted along with this specification
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NOTE:	For Project Specific Specifications contact allnex construction products for advice CS.Construction@alnex.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 for advice.
- 1.2 Materials may only be installed by 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 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 allnex contractor and backed up by our agreement with them. Refer Section 14 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 There shall be no substitute materials used unless written approval is provided by Allnex Construction Products prior to the installation.

2.0

GENERAL ASSESSMENT

- 2.1 This specification has been prepared to detail the requirements and ensure client understanding as to the synthetic resin wall and/or 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 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 contractor 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.
- 2.5 allnex Surecote 200 is a no odour system, however food or food packaging likely to be affected by the installation process (e.g. dust) should be removed from the area.
- 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 co-efficient of friction requirements to ensure compliance with NZ/AS 3661 : 1993
- 2.8 If for any reason the contractor 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 contractor 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 Surecote 200 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.com for any data.
Refer to allnex guides for preparation of walls & floors
- 2.12 Materials

Material		Packaging
Primer (optional for very poor concrete substrates)	Supascreed Primer	Boxed Kit - 6.4ltr Kit <i>(mix complete unit and add 2.4 ltr clean water to make 8.8ltr unit)</i>
2 nd Cost Broadcast Aggregate If required as designed	Surecote 200 18/36 K20s Aluminium Oxide CA46 / Revtred	Part A 12ltr Part B 4ltr (mix ratio 3:1)
Finish Coat	Surecote 200	Part A 12ltr Part B 4ltr (mix ratio 3:1)
Optional Clear Glaze	Revathane	Single Pack 4 ltr / 20ltr
Floor Joints	K130	Boxed Kit – 2ltr
Sealants	allnex NPU allnex PU40	
Cove Capping Details	STZ Cove Strip	5.2mm or 9.2mm as designed

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 SUBSTRATE REQUIREMENTS & 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.
- 4.1.2 New concrete shall have a minimum compressive strength of 25 MPA
- 4.1.3 A minimum cure time of 28 days.
(exceptions seek further advice from allnex construction products)
- 4.1.4 Have 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.
(see 2.6 above)
- 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 or 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 allnexK125, allnex Surecote 200 and Fine Silica sand (J61) or treated as a control joint as appropriate.
- 4.1.10 Deep depressions, impact damage, hollows etc to be repaired or filled using allnex K125, Surecote 200 and Fine Silica prefill or treated as a control joint as appropriate.
- 4.1.11 Repair any unsatisfactory falls, levels, etc using allnex Screed20+ or Supascreed prefill as appropriate.

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 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 accurate within the concrete.
(see 2.6 above)
- 4.2.4 A suitable vapour resistant membrane beneath the concrete slab is required i.e. polythene.
- 4.2.5 A surface free of cement laitence or other contaminants and 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 AllnexK125, allnex Surecote 200 and Fine Silica sand or treated as a control joint as appropriate.
- 4.2.8 Deep depressions, impact damage, hollows etc to be repaired or using allnex K125, Surecote 200 and Fine Silica prefill or treated as a control joint as appropriate.
- 4.2.9 Repair any unsatisfactory falls, levels, etc. using Supascreed prefill system.

4.3 SUBSTRATE PREPERATION

- 4.3.1 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

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

Note

Use Surecote 200 for patching, re-ramping, re-coving, plant feet and to re-form joints.

5.0 INSTALLATION OF ALLNEX SURECOTE 200 FLOOR FINISH

Why use Surecote 200

- Surecote 200 is a Solvent Free, High Build Epoxy Coating.
- It will isolate the concrete substrate from surface contamination and abrasion.
- It will create a non-slip surface finish to the designed R rating
- It will ensure the coloured floor surface can be cleaned and maintained.
- It emits no odours during or following installation.

Surecote 200 offers:

- No odour installation
- Rapid installation
- Chemical resistance
- R non-slip aggregated surface finish where designed
- Compatibility with newer, wetter concrete
- Designer colours to suit application.
- Compatibility with Supascreed epoxy coving where required. (as directed on the plan).

Outline Specification	
Surecote 200 Thickness	Minimum 500 microns
Colour	Standard “grey N35” or chosen as required
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 Surecote to fully harden then remove all excess aggregate and continue with finishing coats as required

5.1 Ensure the substrate is properly prepared and is suitable to receive the allnex Surecote 200 finish

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

5.3 Box blend different batches of Surecote 200 to ensure evenness of colour.

5.4 Priming if required

Weigh out and mix Supascreed primer including the clean potable water in the correct proportions.

Apply One (1) coat of allnex Supascreed primer at a max spread rate 6m²/litre/coat

Into the wet primer broadcast sparingly dry silica rounded grade aggregate.

Allow primer to fully cure (turns clear from white), but overcoat within 36 hours.

Note

Porous areas may require further primer coats until porosity is eliminated.

5.5 **Application of Surecote 200**

Weigh out and mix Surecote 200 Resin Part A with Hardener Part B into a suitable container, power mix at a slow speed (300rpm) for a minimum of 2 minutes ensuring both components are homogeneously blended and the colour is completely uniform.

Ensure no unmixed material remains on the sides, rims or lips of the containers.

Apply the Surecote 200 at a spread rate that will ensure the correct system thickness as designed is achieved.

Surecote 200 - 1kg/ltr @1m² = 1mm thickness.

Apply in a manner to maintain a wet edge, immediately after placing use a spike roller to assist with levelling, if required spike roll again 10 minutes (or at suitable time in adverse conditions) after placing

Allow to cure

In colder temperatures curing may be extended in excess of 24 hours.

6.0 **Optional Clear Over-glaze**

6.1 Apply one (1) coat of allnex Revathane Glaze

Observe minimum / maximum recoat recommendations.

7.0 **Optional Profile Finish**

7.1 Into the second coat of Surecote 200 whilst wet evenly distribute to **excess** the designed broadcast aggregate, see 2.12

7.1 As the resin begins to show on top of the aggregate, additional aggregate is evenly broadcast until no more resin surfaces. Broadcast Coverage approx. 3-4kg / m²

7.3 As soon as the resin has hardened sufficiently (to allow walking across) remove all excess aggregate by sweeping followed by vacuuming to also remove dust and debris.

Once cleared

7.4 **Application finish coat Surecote 200**

Apply top finish coat of Surecote 200 applied nominally at 2-3m²/Lt

7.5 **Optional Clear Over Glaze**

Apply one (1) coat allnex Revathane glaze; apply at 10 – 12m²/ltr.

Care must be taken when applying the Revathane to ensure the anti –slip profile is maintained.

Additional Aggregate may be back rolled into the Revathane if the anti-slip requirement has not been achieved

Observe all coating over-coat timings.

8.0 **OPTIONAL COVES, DRAINS, UPSTANDS ETC**

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

8.2 Install allnex Supascreed Cove detail strictly in accordance with the specifications and recommendation of allnex construction products.

8.3 **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.

- 8.4 **Cove Capping**, Install allnex aluminium STZ cove flashing to all walls at a height of 100mm (or as directed on the plan) from floors.
Ensure aluminium cove flashing is positively sealed and overlaps the fibreglass bandage.
- 8.5 Coves can be completed prior to the floor installation, however they are best installed following installation of the floor. The floors must be protected during the cove installation.
- 8.6 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.
- 8.7 Apply evenly by way of trowel the Supascreed Cove ensuring consistency across the area. Good compaction with a minimum radius for the area as indicated.
- 8.8 Once cured de-nib and overcoat the Supascreed cove detail with two (2) coats Surecote 200,

9.0 **INSTALLATION OF CONTROL JOINTS/SEALANTS ETC**

- 9.1 Expansion / control joints in the substrate are to be continued through the allnex Floor finish. allnex recommends the use of flexible resin based control joint sealants suitable for floor movement, allnex K130.
- 9.2 Junctions between allnex flooring and stainless steel drains, columns etc are to be sealed using the specified system sealant. allnex K130
- 9.3 Ensure all penetrations through the floor/cove, metal cove capping etc. are positively sealed using allnex Formwall Polyurethane sealant.

10.0 **MAINTENANCE**

Ease of repair is a major advantage with allnex Surecote 200 flooring. Damaged areas are cut out and patched level using new materials quickly and with little disruption.

11.0 **CLEANING**

See separate allnex cleaning document for all cleaning requirements.

12.0 **QUALITY ASSURANCE**

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

13.0 **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.

14.0 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

15.0 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.

16.0 DOCUMENTS TO BE CONSULTED

- 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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