

Specification

**Surecote 500**

**Epoxy Slurry & Broadcast Floor Topping System**

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| **PREPARED FOR:** |  |
| **CONTRACT:** | Installation of allnex construction products;  **Surecote 500 Slurry and Broadcast Floor Topping System.**  Project: |
| **DATE:** | February 2022 |
| **SCOPE:** | 1. General Conditions of Contract. 2. General assessment and scope of work. 3. Pre-Start Execution 4. Substrate requirements & surface preparation. 5. Installation allnex **Surecote 500** 6. Optional Coves, Drains, Up -stands 7. Installation of Control Joints / Sealants. 8. Maintenance 9. Cleaning 10. Quality Assurance 11. Protection Of Work 12. Warranty 13. Approved Installation Companies 14. Documents to be consulted along with this specification |
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| **REFERENCES:** |  |

**1.0 GENERAL CONDITIONS OF CONTRACT**

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.
2. Materials may only be installed by allnex approved applicators using staff skilled in the installation of all products covered by this specification. Applicators are to make available senior skilled staff to supervise the work while in progress.
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.
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.
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.
6. This specification is to be read in conjunction with relevant product information and conditions of contract which may be issued by the client.
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 system. If any doubt exists it is the responsibility of the Applicator to seek advice from allnex Construction products.
8. Any warrantee required will be supplied by the allnex approved applicator and backed up by our 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 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 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 Applicator 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 All 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. Repair any unsatisfactory falls, levels, etc. using STZ prefill system.

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| **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. |

*Floor Fall:*

*The existing floor slab shall be checked in the following manner.*

1. *Around the perimeter of all walls, the levels shall be checked at maximum 500mm centres.*

*A continuous horizontal level shall be struck based on the highest point level found.*

1. *Where a level floor finish is called for the highest point level shall be found.*

*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 Applicator find that the concrete substrate 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. Refer: allnex STZ Prefill design document.*

*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.*

1. *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 very by no more than 3mm over a 3-metre length.*

2.7 All flooring is to comply with co-efficient of friction requirements to ensure compliance with current legislation.

2.8 If for any reason the Applicator is unable to carry out the installation of the allnex 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 Surecote 500 system is also suitable for upgrading and resurfacing existing sound resin floor topping systems. *Consult allnex Construction Products for specific project advice.*

2.10 Applicators are required to clean up all debris etc from the work area once their work is completed.

2.11 Technical Data

Refer to *allnex Construction Website* for the latest technical literature.

***GUIDANCE NOTE***

***Use this clause when specifying by performance. Refer to the NZBC verification method D1/VM1 and acceptable solution D1/AS1. This clause may justify expansion, particularly where tiles are being laid in public areas.***

**2.12 Properties**

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| **Element** | **Values** | |
| Minimum Thickness: | 5mm DFT | |
| Primer: | Supascreed Primer | |
| Body- coat: | Surecote 500 | |
| Surface Finish Options: | *Refer Section: 2.14* | |
| Finish Coats: | *Refer Section: 2.13* | |
| Coving System:  Cove Height:  Cove Radius:  Colour:  Surface Finish: | Supascreed Resin  Supascreed Hardener  allnex STZ Cove Sand  Surface Finish Smooth  :mm  25mm | 50mm | 75mm or other *(Delete as Necessary)*  To match floor (or as Specified)  Smooth | |
| Cove Capping Detail: | STZ Cove Strip: 5.2 or 9.2 Rebated | |
| Cove Capping Sealant: | Sabreseal CR | |
| Floor Joint Sealant: | allnex K130 | Sabreseal SMP60 | |
| Pot-Life: ~ Supascreed Primer  ~ Surecote 500 | +200C ~ 75%RH  +250C ~ 50%RH | 1 hour  20 – 30 minutes |
| Hard Dry Ready for Topcoats: | +250C ~ 50%RH | 12 hours |
| Foot Traffic:  *Finished System* | +250C ~ 50%RH | 24 hours |
| Full Use:  *Finished System* | +250C ~ 50%RH | >48 hours |
| Full Cure:  *Finished System* | +250C ~ 50%RH | 7 days |
| Recoat : | Anytime within 24 hours. | |
| *After 24 hours: Severe mechanical abrasion* | |
| SG kg/litre: ~ Resin | Hardener | Aggregate | 2.148 | |
| Thinning ~ Supascreed Primer  ~ Surecote 500 | Clean Potable Water  Do Not Thin  *Lubricate tools with Solvent HA (mixer and barrows).* | |
| Clean up | allnex acetone | |
| Dangerous Good Class | Refer SDS sheets | |
| Packaging ~ Supascreed Primer  ~ Surecote 500 Resin  ~ Surecote 500 Hardener | 6.4 Litre Kit  20kg Plastic Pail  20kg Plastic Pail | |
| Shelf life ~ Resins | Hardener | 6 months from date of manufacture  *(After this period consult with allnex)* | |

**2.13 Surecote 500 System**

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| --- | --- |
| **System Step** | **Component and Coverage** |
| **Primer Coat**  **Coverage** | Supascreed Primer  6.0 m2 / Litre |
| **Body Coat**  **Coverage** | Surecote 500 Slurry Coat  12.88 kg / m2 |
| **Non -Slip**  **Surface Finish** | Surface Finish  Design options  Refer: 2.14 |
| **Topcoat Option A**  **Coverage**  **1st Coat**  **2nd Coat** | Surecote 500 – Clear Finish  2.0 - 2.5 m2/ litre Note\*  4.0 m2/ litre Note\* |
| **Topcoat Option B**  **Coverage**  **1st Coat**  **2nd Coat** | Supascreed – Clear Finish  2.0 - 2.5 m2/ litre Note\*  4.0 m2/ litre Note\* |
| **Topcoat Option C**  **Use with Quartzzite Coloured Aggregates**  **Coverage**  **1st Coat**  **2nd Coat** | Revathane - UV Stable  2.0 m2/ litre  4.0 m2/ litre |
| **Special Colour Topcoat Options**  **Coverage**  **1st Coat**  **2nd Coat**  **Refer: allnex Construction Products for advice.** | Supadeck UV Topcoat - UV Stable | Surecote 200  2.0 - 2.5 m2/ litre Note\*  4.0 m2/ litre Note\* |

*Note\* Dependent on aggregate over-seed choice.*

**2.14 Surecote 500 Surface Finish Design Options**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Type** | **Description** | **Description** | **CF Rating** | **SRV Rating** | **R Rating** | **Examples** |
| **Installation Type** | **Finish Type** | **NZ/AS**  **3661.1**  **1993** | **AS/NZS 4586** |  | **Completely homogeneous floor areas** |
| **Non-Slip**  **Class 2** | Heavy duty Aggregate: non-slip:  Applied with the addition of:-  ~ Q900  ~ Walton Park 18/36  ~ Silver Grey Grit  ~ Aluminium Oxide 16 grit  ~ Walton Park 7/14  ~ Aluminium Oxide 12 grit | Fine – medium garnet  Medium-round silica  Medium- angular garnet  Coarse- sharp/angular  Coarse- round silica  Very coarse -sharp/angular | 0.73 0.73  0.73  0.75  0.75  0.75 | 64  64  64  65  65  65 | R13 | Butchery  Abattoirs  Fish Processing  Veg  Processing |
| **Non-slip**  **Coloured**  **Quartz**  **Finish** | Decorative Aggregate: non-slip  Trowel Applied with the addition of:-  ~ Quartzzite Coloured Aggregate | Medium coloured Quartz | 0.63 | 57 | R12 | Decorative Floors  Bakeries  Sports facilities  Changing Rooms  Pool Concourses  Education |

2.15 Trims and Edging

Refer project drawings for all trims, edging and termination detailing between resin floor finishes and other

## **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 and devoid of solar heat gain.

### 3.2 Handling

Avoid damage to drums and accessories.

### 3.3 Preparation

Record batches and stock numbers. Follow the allnex QA requirements for preparatory conditioning of materials working temperatures and conditions before, during and after application of the selected systems.

Protect the 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

3.7.1 Ensure a site meeting has been held to acquaint other site workers with the requirement for closed access to the work area.

3.7.2 Ensure Health and Safety requirements are understood and agreed to prior to the commencement of the

contract.

3.7.3 Overalls are recommended when using this product.

3.7.4 The use of fans to provide positive forced air draft and/or extraction is recommended.

3.7.5 Erect “No Smoking” signs. No Welding or naked flames permitted within a 10-metre radius during installation -

3.7.6 Have fire extinguishers readily available.

*Refer: safety data sheets (SDS) for all requirements.*

### 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**

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

4.1.3 A minimum cure time of 14 days.

4.1.4 Substrate Temperature ideally +10°C min / +40°C max, applications in lower temperatures will cause the material to become more viscous and harder to place, applications at high temperatures will cause the material to become less viscous and may need edge retaining bars during application to maintain finished floor thicknesses.

4.1.5 Substrate Moisture Content: allnex Surecote 500 can be installed on substrates with a high moisture content. The substrate needs to be visibly dry and have a nominal pull-off strength of a min 1.5 N/mm2, with No ponding water.

***Wet & Uncured Concrete*** *(when less than 28 days cure).*

*Allow no further wetting.*

*The concrete design must be controlled for an early cure and low water content.*

*The Engineer must ensure that the concrete has a low water/cement ratio, is a high strength, rapid setting concrete containing water reducing agents and early cure agents.*

*It must be certified by the concrete placer that the above has occurred.*

*For the Warranty to apply; certification of the engineered concrete must occur and allnex Construction Products and its Applicator must see evidence of its formulation and correct installation.*

*Refer: allnex technical literature “wet & uncured concrete”.*

4.1.6 All falls and levels to be accurately laid into the concrete. *Refer: 2.6 above.*

4.1.7 A suitable vapour resistant membrane beneath the concrete slab is required.

4.1.8 A surface free of cement laitance or other contaminants and any roughly screeded or floated areas. No traces of cure membranes

4.1.9 Deep depressions, impact damage, hollows etc to be repaired or filled as appropriate using Surecote 500 Prefill.

4.1.10 Repair any unsatisfactory falls, levels, etc using Surecote 500 Prefill or Polymer Screed - allnex Screed 20**+** as appropriate to suit the proposed floor finish.

**4.1.11 New Concrete Surface Preparation**

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| --- | --- |
| **allnex recommend mechanical abrasion techniques as the surface preparation method.** | |
| Preferred Option | Captive Shot blasting |
| Secondary Option | Diamond Grinding (Bush Hammer Type) |
| Minimum Requirement | CSP 5 or 6 |
| *Refer: allnex Surface Preparation Technical Literature* | |

**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 Substrate Moisture Content: allnex Surecote 500 can be installed on substrates with a high moisture content. The substrate needs to be visibly dry and have a nominal pull-off strength of a min 1.5 N/mm2, with No ponding water.

4.2.3 Remove all contaminants including cement laitance, dirt, grease, oil, fats, existing coatings, unsound substrate etc by steam cleaning, captive shot blasting, grinding, scabbling, hammering etc as appropriate.

4.2.4 All falls and levels to be accurately laid into the concrete. *Refer: 2.6 above*

4.2.5 A suitable vapour resistant membrane beneath the concrete slab is required.

4.2.6 A surface free of cement laitance or other contaminants and any roughly screeded or floated areas. No traces of cure membranes.

4.2.7 Cracks in the concrete are to be bandaged using allnex 450gsm fibreglass slip tape bandage or treated as a control joint as appropriate.

4.2.8 Deep depressions, impact damage, hollows etc to be repaired or filled as appropriate using Surecote 500 Prefill.

4.2.9 Repair any unsatisfactory falls, levels, etc using Surecote 500 Prefill or Polymer Screed – Screed 20**+** as appropriate to suit the proposed floor finish.

**4.2.10 Existing Concrete Surface Preparation**

|  |  |
| --- | --- |
| **allnex recommend mechanical abrasion techniques as the surface preparation method.** | |
| Preferred Option | Captive Shot blasting |
| Secondary Option | Diamond Grinding (Bush Hammer Type) |
| Minimum Requirement | CSP 5 or 6 |
| *Refer: allnex Surface Preparation Technical Literature* | |

**4.3 Plywood | Fibre-cement**

**4.3.1** **Plywood Sheet:**

|  |  |
| --- | --- |
| **Element** | **Value** |
| Framing: | All framing must comply with current legislation.  Framing must take into consideration all loading parameters. |
| Plywood: | Must Comply with AS/NZS2269. |
| Plywood Type: | H3.2 treated CCA (water-based treatment) with a square edge. |
| Plywood Thickness: | Floors: 17mm – Minimum.  Walls : 12mm – Minimum. |
| Plywood Installation: | Loose butted. |
| Plywood Fastening Type: | Corrosion resistant screws - preferably 50mm stainless screws. |
| Fastening Spacings: | Perimeter: 150mm.  Centres: 200mm. |
| Countersink Fastening: | All fastenings must be countersunk 0.5mm. |
| Plywood Sheet Joints: | All joints must be left with a uniform finish. |
| Fibreglass Laminate: | Install STZ 450gram Chopped Strand Matt Laminate to all areas of Plywood. |

**4.3.2 Fibre Cement Sheet**

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| --- | --- |
| **Element** | **Value** |
| Framing: | All framing must comply with current legislation  Framing must take into consideration all loading parameters. |
| Fibre Cement: | Must Comply with AS/NZS2269 |
| Fibre Cement Type: | With rebated edges that can be stopped to flush the joints. |
| Fibre Cement Thickness: | Floors: 18mm - Minimum  Walls : 9mm – Minimum |
| Fibre Cement Fastening Type: | 316 Stainless Screws - 50mm x 10g |
| Fastening Spacings: | Perimeter: As per manufacturer’s instructions  Centres: As per manufacturer’s instructions. |
| Countersink Fastening: | All fastenings must be countersunk as per Manufacturer’s instructions.  Fill as per the Manufacturer’s instructions. |
| Fibre Cement Sheet Joints: | All joints must be left with a uniform finish. |
| Fibre Cement Sheet Joints: - Flushing | All joints must be flushed in accordance with the Manufacturer’s instructions. |
| Fibreglass Laminate: | Install STZ 450gram Chopped Strand Matt Laminate to all areas of Fibre Cement. |

Note

In all cases:- Refer to the Manufacturer’s installation instructions.

## **5.0 INSTALLATION OF ALLNEX SURECOTE 500 FLOOR FINISH**

5.1 Ensure the substrate is properly prepared and is suitable to receive the allnex Surecote 500 finish.

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

**5.3 Primer Application**

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| --- | --- |
| **Supascreed Primer Mixing Ratio** | |
| **Maximum coverage 5m²/litre/coat.** | |
| **Supascreed Primer Kit** | 6.4 Litre |
| **Clean Potable Water** | 2.4 Litres |

5.4.1 Supascreed Primer Part A | Part B and the water are to be thoroughly mixed in the correct proportions.

5.4.2 Apply a minimum one coat of Supascreed Primer by brush and roller ensuring it is worked well into the prepared substrate.

5.4.3 Coverage rate and number of coats of Primer will vary depending on the porosity of the substrate.

5.4.4 Porous areas may require further primer coats until porosity is eliminated and a full background colour is achieved.

5.4.5 Allow primer to fully cure (turns clear from white). Porous areas may require further coats until porosity is eliminated. *Overcoat within 36 hours.*

**5.5** **Application of Surecote 500 Slurry and Broadcast.**

**5.5.1 Surecote 500 @ 6mm Finish**

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| --- | --- |
| **Element** | **Mix Design #1** |
| Surecote System 500 Resin Part A | 10.00 kg |
| Surecote System 500 Hardener Part B | 5.00 kg |
| STZ Flooring Sand | 50 kg *(2 x 25 kg bags)* |
| Mix Total | 65.00 kg |
| Mix Coverage | 5.00 m2 |
| Kg’s / m2 (approx) | 13.00 kg |

**5.5.2**  **Surecote 500 @ 6mm Finish**

|  |  |
| --- | --- |
| **Element** | **Mix Design #2** |
| Surecote System 500 Resin Part A | 10.00 kg |
| Surecote System 500 Hardener Part B | 5.00 kg |
| Walton Park 7/14 | 20.0 kg |
| Walton Park 18/36 | 20.0 kg |
| J61 | 10.0 kg |
| Mix Total | 65.00 kg |
| Mix Coverage | 5.00 m2 |
| Kg’s / m2 (approx) | 13.00 kg |

5.5.3 Accurately weigh and power mix the Surecote 500 Resin & Hardener add the Aggregate (correct weight) to the mixed resin and hardener, mix until homogenous, consistent and free of lumps

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.

5.5.4 Apply Surecote 500 at the specified rates *Refer: 5.5.1 - 5.5.2*

5.5.5 Whilst wet evenly distribute to **excess** the designed broadcast aggregate*.(as specified)*

5.5.6 As the resin begins to show on top of the aggregate, additional aggregate is evenly broadcast until no more resin surfaces. Broadcast Coverage depends on the chosen system approx. 4-6kg/m2

5.5.7 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.

5.5.8 Allow to Cure.

5.5.9 Apply specified topcoats as per the requirement of the chosen system.

*Refer: Section 2.13*

**5.6** **Application of Surecote 500 Topcoats *(options)***

5.6.1 Once finished and hardened apply the chosen Topcoat.

The Topcoat(s) must be applied only to clean and dry surfaces.

**5.6.2 Surecote 500 Topcoat – Standard Clear**

|  |  |
| --- | --- |
| **Element** | **Mix Design (Sample Volume Mix)** |
| Surecote 500 Resin Part A | 4 kg |
| Surecote 500 Hardener Part B | 2 kg |
| Solvent HA | 0.3 kg |
| Mix Total | 6.3 kg |
| Mix Coverage  ~ First Coat  ~ Second Coat | 2.0 - 2.5m2/ kg - *dependent on aggregate over-seed choice*  4.0 m2/ kg |

**5.6.3 Supascreed Topcoat – Standard Clear**

|  |  |
| --- | --- |
| **Element** | **Mix Design (Sample Volume Mix)** |
| Supascreed Resin Part A | 3 kg |
| Supascreed Hardener Part B | 1 kg |
| Solvent HA | 0.2 kg |
| Mix Total | 4.2 kg |
| Mix Coverage  ~ First Coat  ~ Second Coat | 2.0 - 2.5m2/ kg - *dependent on aggregate over-seed choice*  4.0 m2/ kg |

**5.6.4 Revathane Topcoat- UV Stable - (used over Coloured Aggregate Installations).**

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| --- | --- |
| **Element** | **Volume** |
| Revathane | As required |
| Coverage  ~ First Coat  ~ Second Coat | 2.0 m2/ litre  4.0 m2/ litre |

**5.6.5 Special Colour Topcoat- UV Stable - Gloss Finish**

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| --- | --- |
| **Element** | **Mix Design (Sample Volume Mix)** |
| Supadeck UV Topcoat Resin Part A | 8 kg (7 litres) |
| Supadeck UV Topcoat Hardener Part B | 0.848 kg (0.8 litres) |
| Mix Total | 8.848 kg (7.8 litres) |
| Mix Coverage  ~ First Coat  ~ Second Coat | 2.0 - 2.5m2/ litre *- dependent on aggregate over-seed choice*  4.0 m2/ litre |

**5.6.6 Special Colour Topcoat – Gloss Finish**

|  |  |
| --- | --- |
| **Element** | **Mix Design (Sample Volume Mix)** |
| Surecote 200 Resin Part A | 3 kg |
| Surecote 200 Hardener Part B | 1 kg |
| Solvent HA | 0.2 kg |
| Mix Total | 4.2 kg |
| Mix Coverage  ~ First Coat  ~ Second Coat | 2.0 - 2.5m2/ litre *- dependent on aggregate over-seed choice*  4.0 m2/ litre |

5.6.7 The chosen system components are to be thoroughly mixed in the correct proportions

5.6.8 Thinning of Topcoats

*Refer: Sections 5.6.2 -5.6.6*

5.6.9 The application of the Topcoats may be by the Roller and Tray method or by the method as set out in

*Section 5.6.10.*

5.6.10 The application of the Topcoats is should be undertaken in the following manner if this methodology is chosen:-

Pour and Squeegee application technique, followed by back-rolling with a double ended commercial cage roller and sleeve to achieve the correct top coat DFT and surface profile.

*Note*

*Incorrect application of the top coats could result in:-*

● *Blisters / bubbling of the topcoat.*

● *Incorrect cure of the top coat due to the increased thickness leading to reduced chemical and wear resistance.*

● Flooding; *Diminished surface texture resulting in non-compliance with the required slip-ratings.*

*Note*

*Additional topcoats will reduce surface texture and slip resistant properties.*

**Observe minimum/maximum recoat recommendations**

## **6.0 APPLICATION OF COVES | DRAINS | UPSTANDS ETC****.**

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

6.2 **Cove Reinforcement**: Apply a Fibreglass bandage to the junctions between all timber framed or insulated panel walls and floors using 450 gsm chopped strand glass matt and the mixed Supascreed . The Fibreglass is to extend to full height of cove/upstand and a minimum 50mm onto floor.

6.3 **Cove Capping**: Install allnex 5.2 | 9.2 rebated cove cap termination detail strictly in accordance with the specifications and recommendation of allnex Construction Products and specific site requirements.

Ensure aluminium cove flashing is mechanically fixed at a minimum of 300mm centres and positively sealed to provide a hygienic finish and overlap the fibreglass bandage.

6.4 Coves and skirting’s can be completed as part of the main floor or following the installation of the main floor.

If coves are installed post the main floor then the floor must be protected during cove/skirting installation.

6.5 Accurately weigh and thoroughly mix the Supascreed 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.

6.6 Apply evenly by way of trowel the Supascreed Cove ensuring consistency along the detail. Ensure good compaction and the designed radius for the area is as indicated.

6.7 Ensure the transition of the cove base onto the flooring area is smooth, even and free of nibs and depressions that may hold dirt.

6.8 All cove details are finished smooth to aid cleaning.

6.9 As soon as the resin cove detail has hardened sufficiently de-nib followed by vacuuming to remove dust etc.

6.10 Once finished and hardened apply the Specified Topcoat System.

*Refer: Section 2.13 above*

*Note*

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

**Observe minimum/maximum recoat recommendations**

**7.0** **INSTALLATION OF CONTROL JOINTS | SEALANTS ETC.**

**7.1 Joints:**

All concrete control and construction joints should be carried through the Surecote 500 System.

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| --- | --- |
| **Control | Construction Joints** | **Cold Joints | Non-Movement Joints** |
| **allnex K130 or Sabreseal SMP60** | **allnex K130 or Sabreseal SMP60** |
| **Floor Penetrations** | **Cove Cap Sealant** |
| **Sabreseal SMP60** | **Sabreseal CR** |

*Note*

*The Control Joint Sealants must be installed with a bond breaker.*

7.2 The interface between the allnex Surecote 500 flooring and stainless-steel drains, etc. are to be sealed using allnex K130 or Sabreseal SMP60 sealant.

7.3 All penetrations through the floor/coves, are positively sealed using Sabreseal SMP60

7.4 Ensure the metal cove capping is positively sealed using Sabreseal CR.

7.5 All cold joints between sections of the Surecote 500 Flooring /coves etc. may be sealed using allnex K130 or Sabreseal SMP60 sealant.

**8.0** **MAINTENANCE**

Ease of repair is a major advantage with allnex Surecote 500 flooring.

Damaged areas are cut out and patched level using new materials quickly and with little disruption.

**9.0 CLEANING**

*Refer: Cleaning and Maintenance Technical Literature on the allnex Construction Website.*

**10.0 QUALITY ASSURANCE**

A log shall be kept by the approved applicator and made available to allnex at their request.

Information to be recorded daily is but not limited to:-

* Material Batch Numbers
* Sequence of Mixing ratios and quantities and formula
* Substrate Moisture Content
* Substrate Temperature
* Ambient Temperature
* Ambient Relative Humidity

**Refer: Documents QC.RF.1 | QC.RF.2 | QC.RF.3**

**11.0 COMPLETION & PROTECTION OF WORK**

The approved Applicator 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.

The approved Applicator shall:

* 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 the allnex design specification.

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

The approved Applicator 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 on the trade that contractor skill levels, capability and experience vary.

**14.0 DOCUMENTS TO BE CONSULTED**

● allnex Approved Applicator List  ● allnex Exterior Installation

● allnex Product Technical Data Sheets ● allnex Colour Formulas

● allnex Flooring Details● allnex Cleaning Recommendations

● allnex Surface Preparation Document● allnex Technical Bulletins

**Date: Feb 2022**

**Replaces NA**



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