

Method Statement / Specification

**Surecote 200 *Vessca* SLE**

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| **PREPARED FOR:** |  |
| **CONTRACT:** | Installation of allnex construction products;  **SURECOTE 200 *VESSCA* SLE Hi-Build Epoxy Coating System**  Project: |
| **DATE:** | February 2023 |
| **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 200 *Vessca* SLE** 6. Optional Clear Over-glaze 7. Optional Coves, Drains, Up -stands 8. Installation of Control Joints / Sealants. 9. Maintenance 10. Cleaning 11. Quality Assurance 12. Protection Of Work 13. Warranty 14. Approved Installation Companies 15. Documents to be consulted along with this specification |
| **PREPARED BY:** | allnex Construction Products  Colin Nolan  Ph - +64 3 366 6802  Mob - +64 21 956 160  Email - colin.nolan@allnex.com  [www.allnexconstruction.com](http://www.allnexconstruction.com) |
| **NOTES:** |  |

**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 Applicator and backed up by our agreement with them.

*Refer: Section 13 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. fumes /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 200 Vessca SLE 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 ~ Floors | 3.0mm DFT | |
| Primer ~ No Odour Primer  ~ Alternative Primer | Supascreed Primer  Surecote 200 – thinned with Solvent HA  *(This alternative primer system is no longer solvent free)* | |
| Body- coats | Refer Section: 2.14 | |
| Surface Finish Options | Refer Section: 2.13 | |
| Finish Coats | Refer Section: 2.14 | |
| Coving System – Type 1  Cove Height  Cove Radius  Colour | 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) | |
| Coving System: Type 2  Used for installing small coves only: not upstands  Cove Radius:  Colour: | Supaset  Surface Finish Smooth    15mm | 20mm | 25mm | 50mm (Delete as Necessary)  To match floor (or as Specified) | |
| Optional Clear Glaze | Revathane Glaze | |
| 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 | +140C ~ 75%RH  +180C ~ 75%RH  +250C ~ 75%RH | 80 minutes  70 minutes  55 minutes |
| Touch Dry | +140C ~ 75%RH  +250C ~ 75%RH | 5.2 hours  3 hours |
| Light Foot Traffic | +250C ~ 75%RH | 3 hours minimum |
| Full Cure | +250C ~ 75%RH | > 48 hours |
| Recoat ~ Minimum  ~ Maximum | 16 hours.  48 hours | |
| *After 48 hours: Severe mechanical abrasion* | |
| SG kg/litre ~Resin | Hardener | 1.56 | |
| Thinning | Solvent HA - maximum 15%  *Note*  *Once Solvent HA is added the system is no longer solvent free* | |
| Clean up | allnex acetone | |
| Dangerous Good Class | Refer SDS sheets | |
| Packaging ~ Supascreed Primer  ~ Surecote 200 Resin  ~ Surecote 200 Hardener  ~ Solvent HA  ~ Vessca Powder | 6.4 Litre Kit  12 Litre (20kg) Plastic Pail  4 Litre (4kg) Plastic Pail  4 Litre Tin | 20 Litre Metal Pail  20 kg Plastic lined paper bag | |
| Shelf life | 6 months from date of manufacture  *(After this period consult with allnex)* | |

**2.13 Surecote 200 Vessca SLE System**

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| **System Component** | **Surecote 200 SLE**  **Smooth Finish** |
| **Primer Coat**  **Type 1**  **Primer Coat**  **Type 2**  **Coverage** | Supascreed Primer  Surecote 200 Thinned with Solvent HA  6.0 m2 / Litre |
| **Scratch Coat**  **Coverage** | Surecote 200  Coverage dependent on substrate imperfections remediation |
| **SLE Coat**  **Coverage** | Surecote 200  1.0 m2/Ltr/mm |
| **Finished DFT Thickness** | As required |
| **\*\*Optional\*\***  **Clear Glaze Coat** | Revathane |

**2.14 Surecote 200 Vessca SLE Surface Finish**

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| --- | --- | --- | --- | --- | --- | --- |
| **Surecote**  **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** |
| **Type SLE** | Smooth:  Gauging Trowel application | Smooth | 0.46 | 41 | R11 | Dry areas  Garages  Clean rooms |

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 Flammable 3C.- Only if using with Solvent HA

3.7.6 Erect “No Smoking” signs. No Welding or naked flames permitted within a 10-metre radius during installation - Only if using Solvent HA

3.7.7 Have fire extinguishers readily available if using with Solvent HA

*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 28 days.

4.1.4 The substrate needs to have a nominal pull-off strength of a min 1.5 N/mm2.

4.1.5 Have a moisture content less than 75% RH or 18% WME *(exceptions seek further advice from allnex construction products technical)*

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

4.1.7 For slab on ground installations 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.

4.1.9 Remove all concrete curing agents, contaminants and any other material likely to affect the adhesion of the Surecote 200 Vessca SLE.

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

4.1.11 Deep depressions, impact damage, hollows etc. to be repaired or filled as appropriate using STZ Prefill.

4.1.12 Small defects, depressions etc. to be repaired or filled as appropriate using allnex Fairing Cream.

4.1.13 Repair any unsatisfactory falls, levels, etc. using STZ Prefill as appropriate to suit the proposed floor finish.

4.1.14 Pin-holes Use Surecote 200 scratch coat. *Refer 6.6*

**4.1.15 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 |
| Minimum Requirement | CSP 3 or 4 |
| **This is a non-negotiable requirement.** | |

**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 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.

4.2.3 The substrate needs to have a nominal pull-off strength of a min 1.5 N/mm2.

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

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

4.2.6 For slab on ground installations a suitable vapour resistant membrane beneath the concrete slab is required.

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

4.2.8 No traces of cure membranes.

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

4.2.10 Deep depressions, impact damage, hollows etc. to be repaired or filled as appropriate using STZ Prefill.

4.2.11 Small defects, depressions etc. to be repaired or filled as appropriate using allnex Fairing Cream.

4.2.12 Repair any unsatisfactory falls, levels, etc. using STZ Prefill.

4.2.13 Pin-holes Use Surecote 200 scratch coat. *Refer 6.6*

**4.2.14 Existing Concrete Surface Preparation**

|  |  |
| --- | --- |
| **allnex recommend mechanical abrasion techniques as the surface preparation method.** | |
| Preferred Option | Captive Shot blasting |
| Secondary Option | Diamond Grinding |
| Minimum Requirement | CSP 3 or 4 |
| **This is a non-negotiable requirement.** | |

**4.3 Plywood | Fibre-cement**

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

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| --- | --- |
| **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.  Fill with allnex Fairing Cream. |
| Plywood Sheet Joints: | All joints must be left with a uniform finish.  Where required: Install Situclad EHD Reinforcement bandage to all plywood joints. |

*Note*

*If using the Situclad EHD bandage system, this will show in the finished work.*

*To minimise this, the plywood edges can be rebated down to allow for this. This is best done prior to the plywood installation but may be achieved post installation with the use of a Router.*

*The joint width shall be a minimum of 75mm.*

**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. |

*Note*

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

## **5.0 APPLICATION OF COVES ETC.**

5.1 Ensure the substrate is properly prepared and is suitable to receive the chosen allnex Cove finish.

**5.1.1 Supaset Cove Installation – *For fillet coves only.***

5.1.2 Install Supaset fillet coves to the specified cove radius.

5.1.3 Ensure that all dags and imperfections are removed following installation. This can be done by abrading the surface with 40 – 60 grit abrasive paper.

**5.2** **Supascreed Cove Installation – *For full height coves incorporating aluminium cove cap.***

5.2.1 **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.

5.2.2 **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.

5.2.3 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.

5.2.4 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.

5.2.5 Ensure the transition of the cove base onto the flooring area is smooth, even and free of nibs and depressions.

5.2.6 All cove details are finished smooth.

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

5.2.8 Once finished and hardened the Surecote 200 system may be applied.

*Refer: Section 2.15 above*

**Observe minimum/maximum recoat recommendations.**

## **6.0 INSTALLATION OF ALLNEX SURECOTE 200 VESSCA SLE FLOOR FINISH**

6.1 Ensure the substrate is properly prepared and is suitable to receive the allnex Surecote 200 Vessca SLE finish.

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

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

\*\**Note Well\*\**

*Substrate preparation can and most likely will expose voids | pinholes in the substrate.*

*These are not normally filled with the application of the primer coat.*

*The application of a “Scratch Coat” is required following the Primer application.*

*The application method of this is by way of flat trowel | applicator or squeegee. This is crucial in achieving the desired smooth impervious pinhole free finish*

*Refer: Scratch Coat 6.6*

**6.4 PRIMER COAT: MIXING - KIT SIZE AND COVERAGE**:

**6.4.1 Type 1 - Supascreed Primer**

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| --- | --- |
| **Supascreed Primer Mixing Ratio** | |
| **Maximum coverage 6m²/litre/coat.** | |
| **Kit Coverage (Including the addition of water) - 52.8m2** | |
| **Supascreed Primer Kit** | 6.4 Litre |
| **Clean Potable Water** | 2.4 Litres |

6.4.2 Supascreed Primer and the clean potable water are to be thoroughly mixed in the correct proportions.

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

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

6.4.5 Wait until Supascreed Primer to cure before over-coating. Allow primer to fully cure *(turns clear from white)*, but overcoat within 36 hours.

6.5 Type 2 - Surecote 200 diluted with Solvent HA

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| **Surecote 200 | Solvent HA Mixing Ratio** | |
| **Maximum coverage 6m²/litre/coat.** | |
| **Surecote 200 Resin** | 3 litres |
| **Surecote 200 Hardener** | 1 litre |
| **Solvent HA** | 600mls |

**Kit Size and Coverage:** *For Primer Coat Only*

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| --- | --- |
| **Element** | **Values** |
| Surecote 200 Part A | 12 litres |
| Surecote 200 Part B | 4 litres |
| Solvent HA - 15% | 2.4 litres |
| Mix Total | 18.4 litres |
| Mix Coverage: ~ Primer Coat @ 6m2/litre | 110.4m2 |

6.5.1 Surecote 200 Resin | Hardener and Solvent HA Primer are to be thoroughly mixed in the correct proportions.

6.5.2 Apply a minimum one coat of the mixed Surecote 200 Primer by brush and roller ensuring it is worked well into the prepared substrate.

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

6.5.4 Wait until Surecote Primer has cured before over-coating.

**6.6 SCRATCH COAT: MIXING - KIT SIZE AND COVERAGE**:

|  |  |
| --- | --- |
| **Element** | **Values** |
| Surecote 200 Part A | 12 litres (20kg) |
| Surecote 200 Part B | 4 litres ( 4kg) |
| Mix Total - Litres | 16 litres (24kg) |
| Mix Coverage: | Coverage will depend on substrate pin-holing |

**6.6.1** **Application of Surecote 200 Scratch Coat**

6.6.2 Ensure the Primer Coat has cured and is ready to receive the Surecote 200 Scratch Coat.

6.6.3 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. Scrape the pail sides with a long broad-knife and then mix again. Mix slowly to avoid air entrapment.

*Note*

*Do not add Solvent HA to the Scratch Coat as this will cause shrinkage and defects will still be visible.*

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

Apply the Surecote 200 at a spread rate to fill voids pinholes as necessary.

6.6.5 *The application method of this is by way of flat trowel | applicator or squeegee.*

6.6.6 Allow to cure.

6.6.7 Recheck all areas and spot fill or apply a second scratch coat as required.

**Observe minimum/maximum recoat recommendations**

**6.7** **SURECOTE 200 VESSCA SLE SYSTEM: -MIX RATIO**

**Mix Ratio: *By weight* only**

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| --- | --- |
| **Element** | **Values** |
| Surecote 200 Part A | 5 parts |
| Surecote 200 Part B | 1 part |

**Mix Ratio: - *By weight* only**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Surecote 200**  **Part A**  **Kg** | **Surecote 200**  **Part B**  **Kg** | **Vessca Powder**  **Minimum**  **Recommended**  **Addition**  **Kg** | **Vessca Powder**  **Suggested**  **Addition**  **Kg** | **Vessca Powder**  **Maximum**  **Allowable**  **Addition**  **Kg** |
| 5 | 1 | 2.5 | 3 | 6 |
| 10 | 2 | 5 | 6 | 12 |
| 20 | 4 | 10 | 12 | 24 |

**Kit Size and Coverage**

|  |  |  |  |
| --- | --- | --- | --- |
| **Element** | **Values** | | |
| **Vessca Powder**  **Minimum**  **Recommended**  **Addition** | **Vessca Powder**  **Suggested**  **Addition** | **Vessca Powder**  **Maximum**  **Allowable**  **Addition** |
| Surecote 200 Part A | 20kg (12 litres) | 20kg (12 litres) | 20kg (12 litres) |
| Surecote 200 Part B | 4kg ( 4 litres) | 4kg ( 4 litres) | 4kg ( 4 litres) |
| Vessca Powder | 10kg (4.94 litres) | 12kg (5.93 litres) | 24 kg (11.86 litres) |
| Mix Total - litres | 34kg (20.94 litres) | 36kg (21.93 litres)\_ | 48kg (27.86 litres) |
| *Note*  *Coverage applies to Smooth Surface systems only.* | 3mm = 6.98m2 / 34kg mix 4mm = 5.23m2 / 34kg mix 5mm = 4.18m2 / 34kg mix | 3mm = 7.31m2 / 36kg mix  4mm = 5.48m2 / 36kg mix  5mm = 4.38m2 / 36kg mix | 3mm = 9.28m2 / 48kg mix  4mm = 6.96m2 / 48kg mix  5mm = 5.57m2 / 48kg mix |

**6.7.1 APPLICATION OF THE SURECOTE 200 VESSCA SLE**

Gauging Trowel |Spreader application -

Set gauges to the specified thickness – ensure the gauging cams are new and will provide the correct thickness as specified.

\*\* Rotate / change cams as required to maintain the correct thickness.\*\*

6.7.2 Ensure the Scratch Coat has cured and is ready to receive the Surecote 200 SLE finishing system.

6.7.3 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. Scrape the pail sides with a long broad-knife and then mix again. Mix slowly to avoid air entrapment.

6.7.4 Add the Vessca Powder *(correct weight for mix design)* slowly whilst mixing to the mixed Surecote Resin and Hardener. 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. Scrape the pail sides with a long broad-knife and then mix again. Mix slowly to avoid air entrapment.

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

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

6.7.7 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 within 10 minutes *(or at suitable time in adverse conditions)* after placing.

*Note*

*Spike rolling of the material after the material has started its cure phase will result in marks from the roller*

*remaining in the floor.*

6.7.8 Allow to cure.

## **7.0 OPTIONAL - CLEAR OVER GLAZE.**

Over glaze can be advantageous where chemical staining may occur.

Over glaze with one coat of allnex Revathane non-yellowing polyurethane *(Refer: Revathane technical data).*

Over glazes are not commonly required.

*Refer: allnex Construction Products for advice*.

*Caution*

*When over glazing Surecote 200 Vessca SLE System; severe mechanical abrasion is required to obtain the required inter-coat adhesion parameter.*

*Note*

*If the Surecote 200 Vessca SLE material has not been mixed in the correct proportions and with the correct*

*technique as stated then adhesion between the Surecote 200 SLE and the Revathane Glaze coat will be*

*compromised*.

**Observe minimum/maximum recoat recommendations**

7.1 Mechanically abrade Surecote 200 Vessca SLE surface.

7.2 Apply one (1) coat allnex Revathane glaze; apply at maximum 10 - 12m2/litre.

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

**8.1 Joints:**

All concrete control and construction joints should be carried through the Surecote 200 Vessca SLE System.

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

*Note*

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

8.2 The interface between the allnex Surecote 200 Vessca SLE flooring and stainless-steel drains, etc. are to be sealed using allnex Sabreseal SMP60 sealant.

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

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

8.5 All cold joints between sections of the Surecote 200 Vessca SLE flooring/coves etc. may be sealed using allnex Sabreseal SMP60 sealant.

**9.0** **MAINTENANCE**

Ease of repair is a major advantage with allnex Surecote 200 Vessca SLE flooring.

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

**10.0 CLEANING**

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

**11.0 QUALITY ASSURANCE**

A log shall be kept by the allnex 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***

**12.0 COMPLETION & PROTECTION OF WORK**

The allnex 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 allnex approved applicator shall:

* Check that the Surecote 200 SLE is smooth and pinhole free.
* Check (If Specified) All coves details are correct (radius and height).
* De-nibbing – Ensure there are no surface dags on floors and coves.
* Check (If Specified) non-slip surface texture is as specified and even.
* Check (If specified) Falls - Check all water falls to drains, with no ponding.
* Ensure floor / topcoat is fully cured overnight prior to other trades or service

**13.0** **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 installation environment and the installation process all warranties are supplied by the approved application company and backed by our agreement with them.

The allnex 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

**14.0 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.

**15.0 DOCUMENTS TO BE CONSULTED**

● allnex Approved Applicator List  ● allnex Product Technical Data Sheets

● allnex Colour Formulas ● allnex Surface Preparation Document

● allnex Flooring Details● allnex Cleaning Recommendations

● allnex Technical Bulletins● allnex Exterior Installation

**16.0 SURECOTE 200 - *MIXING & SOLVENT HA ADDITION CHART FOR THE ALTERNATIVE PRIMER*.**

**By Volume By Weight**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Surecote 200**  **Part A**  **Litre** | **Surecote 200**  **Part B**  **Litre** | **Solvent HA Addition**  **Litre** |  | **Surecote 200**  **Part A**  **KG** | **Surecote 200**  **Part B**  **KG** | **Solvent HA Addition**  **KG** |
| 1 | 0.33 | 200mls |  | 1.66 | 0.33 | 0.173 |
| 1.5 | 0.5 | 300mls |  | 2.5 | 0.5 | 0.260 |
| 2 | 0.66 | 400mls |  | 3.33 | 0.66 | 0.346 |
| 2.5 | 0.83 | 500mls |  | 4.16 | 0.83 | 0.433 |
| 3  ¼ Unit | 1  ¼ Unit | 600mls |  | 5  ¼ Unit | 1  ¼ Unit | 0.520 |
| 3.5 | 1.16 | 700mls |  | 5.83 | 1.16 | 0.606 |
| 4 | 1.33 | 800mls |  | 6.66 | 1.33 | 0.693 |
| 4.5 | 1.5 | 900mls |  | 7.5 | 1.5 | 0.780 |
| 5 | 1.66 | 1 Ltr |  | 8.33 | 1.66 | 0.866 |
| 5.5 | 1.83 | 1.1 Ltr |  | 9.16 | 1.83 | 0.953 |
| 6  ½ Unit | 2  ½ Unit | 1.2 Ltr |  | 10  ½ Unit | 2  ½ Unit | 1.04 |
| 6.5 | 2.16 | 1.3 Ltr |  | 10.83 | 2.16 | 1.12 |
| 7 | 2.33 | 1.4 Ltr |  | 11.66 | 2.33 | 1.21 |
| 7.5 | 2.5 | 1.5 Ltr |  | 12.5 | 2.5 | 1.3 |
| 8 | 2.66 | 1.6 Ltr |  | 13.33 | 2.66 | 1.38 |
| 8.5 | 2.83 | 1.7 Ltr |  | 14.16 | 2.83 | 1.47 |
| 9  ¾ Unit | 3  ¾ Unit | 1.8 Ltr |  | 15  ¾ Unit | 3  ¾ Unit | 1.56 |
| 9.5 | 3.16 | 1.9 Ltr |  | 15.83 | 3.16 | 1.64 |
| 10 | 3.33 | 2 Ltr |  | 16.66 | 3.33 | 1.73 |
| 10.5 | 3.5 | 2.1 Ltr |  | 17.5 | 3.5 | 1.82 |
| 11 | 3.66 | 2.2 Ltr |  | 18.33 | 3.66 | 1.90 |
| 11.5 | 3.83 | 2.3 Ltr |  | 19.16 | 3.83 | 1.99 |
| 12  Full Unit | 4  Full Unit | 2.4 Ltr |  | 20  Full Unit | 4  Full Unit | 2.08 |

**Date: October 2023**

**Replaces Sept 2023**



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