 Method Statement / Specification

**Situclad EWS**

**Fibre-Reinforced Epoxy Waterproofing Membrane System**

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| **PREPARED FOR:** |  |
| **CONTRACT:** | Installation of allnex construction products.**Situclad EWS Reinforced Epoxy Waterproofing Membrane 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. Pre-Installation Preparation.
6. Application Conditions.
7. Installation: allnex **Situclad EWS.**
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.
 |
| **PREPARED BY:** | Colin Nolanallnex construction productsPh - +64 3 366 6802Mob - +64 21 956 160Email - colin.nolan@allnex.com[www.allnexconstruction.com](http://www.allnexconstruction.com)  |
| **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 waterproofing system 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 allnex Situclad EWS is a no odour option; however, 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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|  **Falls**  |
| Decks | 1:40 |
| Gutters | 1:100 minimum |

 *Minimum Falls as above or as proscribed by local bodies or current legislation.*

 *Confirm that the substrate, including falls, surface finish, fillets, sumps, countersinking terminations and projections, will permit Situclad EWS work of the required standard*.

 *Falls:*

 *The existing falls 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 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 substrate the difference between the lowest (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 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 substrate shall be corrected (if required) using STZ Prefill. Refer: allnex STZ Prefill design document or consult allnex Construction Products for specific project advice..*

 *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 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.

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

2.9 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:  | 1mm DFT |
| Minimum Application Temperature: Air | +10°C |
| Maximum Application Relative Humidity: Air | 85% |
| Situclad EWS System Steps:  | *Refer Section: 2.13* |
| Coving System: ~ Concrete ~ Fibre-cement ~ Plywood | SupasetSupasetTimber Fillet |
| Cove upstand Detail: | As specified by Architect / Engineer |
| Sealants: | SabreBond SMP60 | SabreSeal CR |
| Pot-Life: Pot life is based on 100gram samples. Large quantities of mixed epoxy will generate heat and the pot life may be significantly reduced.  | +150C ~ 75%RH+250C ~ 75%RH+35C ~ 75%RH | 3.5 Hours2 hours1 hours |
| Surface Dry:  | +250C ~ 50%RH | 2 hours |
| Hard Dry:  | +250C ~ 50%RH | 24 hours minimum |
| 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 :  ~ Minimum  ~ Maximum | +2 hours *In good conditions (Heat | Air flow) the second coat could be done on the same day.* *If you can walk on the basecoat without it “sheering” under your feet then you can apply the second coat of Aquakem.* *Generally the first coat will be dry enough after two (2) hours at 250C* 24 hours |
| *After 24 hours: Severe mechanical abrasion* |
| Thinning:  | Do Not Thin |
| Clean up: | Warm water & detergent. |
| Dangerous Good Class:  | Refer SDS sheets |
|  Packaging:  ~ Aquakem Resin ~ Aquakem Hardener | 8 litre Unit | 20 litre Unit4 litre | 10 litre4 litre | 10 litre |
| Shelf life: ~ Aquakem   | months from date of manufacture~ Store above +20C*(After this period consult with allnex Construction Products)* |

 **2.13 Situclad EWS System Steps**

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| **System Step** | **Component and Coverage** |
| **Primer Coat****Coverage**  | Aquakem5.0 m2 / Litre |
| **1st Body Coat****Coverage** | Aquakem1.5m2  / litre |
| **Fibreglass Reinforcement** | 300gsm Chopped Strand Matt |
| **2nd Body Coat****Coverage** | Aquakem1.5m2  / litre |

2.14 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.

### 3.8 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 7 days.

4.1.4 Substrate Temperature ideally +10°C min / +40°C max, applications in lower temperatures will cause the material cure to become adversely affected.

 4.1.5 Substrate Moisture Content: allnex Situclad EWS 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).*

 *It is expected that when installing in this situation, the concrete will have been protected from rain since placement.*

 *Green, saturated concrete is not a suitable base.*

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 Cracks in the concrete are to be chased and filled with allnex K125 epoxy paste.

4.1.10 Deep depressions, impact damage, are filled using allnex K125 Epoxy Paste.

4.1.11 Repair of any unsatisfactory falls, levels, etc. using STZ Epoxy Prefill as appropriate.

4.1.12 Small holes / defects may be filled with allnex Fairing Cream.

 **4.1.13 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 |
|  *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 Situclad EWS 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 surface free of cement laitance or other contaminants and any roughly screeded or floated areas. No traces of cure membranes.

4.2.6 Cracks in the concrete are to be chased and filled with allnex K125 epoxy paste.

4.2.7 Deep depressions, impact damage, are filled using allnex K125 Epoxy Paste.

4.2.8 Repair of any unsatisfactory falls, levels, etc. using STZ Epoxy Prefill as appropriate.

4.2.9 Small holes / defects may be filled with allnex Fairing Cream.

 **4.2.10 Existing 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 |
|  *Refer: allnex Surface Preparation Technical Literature* |

 **4.3** **Concrete Block**

4.3.1 Concrete Block must be installed to the manufactures specifications and comply with current building codes.

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

4.3.3 A minimum cure time of 14 days.

4.3.4 A surface free of cement laitance or other contaminants.

4.3.5 Remove all contaminants including cement laitance, dirt, grease, oil, fats, existing coatings, unsound substrate etc. by steam cleaning, grinding, scabbling, acid etching, etc. as appropriate.

4.3.6 Cracks in the concrete blocks are to be chased out and filled using allnex K125 Epoxy repair paste.

4.3.7 Blocks must be struck flush using allnex Supascreed Coving Resin/J61 sand or allnex K125 Epoxy repair paste.

 **4.3.8 Concrete Block Surface Preparation**

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| **allnex recommend mechanical abrasion techniques as the surface preparation method.** |
| Requirement | Diamond Grinding  |
| Minimum Requirement | CSP 3 |
|  *Refer: allnex Surface Preparation Technical Literature* |

 **4.4 Plywood | Fibre-cement**

 *Note*

 *Wherever possible prime the Plywood and Fibre-cement with Aquakem prior to sheet installation.*

 *Pay particular attention to the edges of the sheets.*

 **4.4.1** **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. |
| Filling of Countersunk Fastenings: | Flush fill all screw heads and sheet joints using allnex Fairing Cream. |
| Plywood Sheet Joints: | All joints must be left with a uniform finish. |

 **4.4.2 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 - MinimumWalls : 9mm – Minimum |
| Fibre Cement Fastening Type: | 316 Stainless Screws - 50mm x 10g |
| Fastening Spacings: | Perimeter: As per manufacturer’s instructionsCentres: As per manufacturer’s instructions. |
| Countersink Fastening: | All fastenings must be countersunk as per Manufacturer’s instructions. |
| Filling of Countersunk Fastenings: | Flush fill all screw heads and sheet joints using allnex Fairing Cream. |
| Fibre Cement Sheet Joints: | All joints must be left with a uniform finish. |

 Note

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

**5.0 PRE - INSTALLATION PREPARATION**

 5.1 Round all edges at downturns.

 5.2 Install fillets at floor to wall junctions.

 5.3 Ensure Drains / vents & overflows are rebated and installed correctly.

 5.4 Ensure Flashings and the correct installation of movement/control joints has been achieved.

**6.0 APPLICATION CONDITIONS:**

6.1 Products such as Situclad EWS require *good drying conditions*to allow water to evaporate from the coating.

 6.2 *Do not* apply in temperatures less than 10°C or when wet weather is likely.

 6.3 Good *air movement*is the best method of drying water-based products.

 6.4 Working in hot, dry windy conditions will be difficult as the material will setup too rapidly.

 *Study weather forecasts to ensure that the material will be fully through dry prior to any rain.*

## **7.0 INSTALLATION OF ALLNEX SITUCLAD EWS WATERPROOFING MEMBRANE FINISH**

 7.1 Ensure the substrate is properly prepared and is suitable to receive the allnex Situclad EWS finish.

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

 **7.3 Primer Application**

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| **Primer Type**  |
| **Metal** | Anti-corrosion metal primerFollow with Aquakem |
| **Concrete | Plywood | Fibre-cement**  | Aquakem |

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| **Aquakem Mixing Ratio**  |
| **Maximum coverage 5m²/litre/coat.** |
| **Aquakem Part A** | 1 part |
| **Aquakem Part B** | 1 part |

 7.3.1 Aquakem Part A | Part B are to be thoroughly mixed in the correct proportions.

 7.3.2 Power mix at low speed (approximately 300rpm) for 3 minutes ensuring both compounds are homogeneously blended, and the colour is uniform.

 Scrape the pail sides with a long broad-knife and then mix again.

 Mix slowly to avoid air entrapment.

 *Note*

 *Ensure no unmixed materials remain on the sides, rims or lips of the containers.*

 7.3.3 Apply a minimum one coat of Aquakem by brush and roller ensuring it is worked well into the prepared substrate, including joints of a Plywood or Fibre-cement substrate.

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

 7.3.5 Allow primer to fully cure.

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

 *If the Aquakem Primer coat is left more than 24 hours, it must be sanded and re-primed.*

 **7.4 Internal / External Junctions, Plywood and Fibre-cement Sheet Joints and Upstand Reinforcement**

 7.4.1 All junctions should be Fibreglass reinforced prior to the full membrane application.

 7.4.2 Sheet Joints: will require a 100mm wide strip of 300gsm chopped strand fibreglass matt or polyester cloth tape.

 7.4.3 Internal / External Junctions: will require a minimum 150mm wide strip of 300gsm chopped strand fibreglass matt or polyester cloth tape.

 *Note*

*The polyester cloth tape will dry more quickly than the chopped strand mat.*

7.4.4 In all cases, apply a heavy coat of Aquakem body coat and lay in the CSM strip and apply a further body coat. Immediately use a metal laminating-roller (refer: to allnex range) to bring the body coat up through the CSM.

7.4.5 Use a garden sprayer to apply a *fine water mist.*

 *This ensures that the Aquakem is fluid and wets the glass readily.*

 7.4.6 Allow to fully dry (*test),* prior to the full membrane installation.

 **7.5 Fibreglass Reinforcement Preparation**

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| **Element** | **Value** |
| Fibreglass Salvage edge: | The salvage edge of the fibreglass matt must be “teased’ prior to installation. |

 7.5.1 The “teasing” of the salvage edge assists with the overlap application.

**7.6 Aquakem Body Coats & Reinforcement**

7.6.1 Once the sheet joint reinforcing has cured, apply evenly by way of roller / brush the first body-coat of Aquakem to the area to be laid up.

 A wet edge must be maintained across the work face to allow the next section of Aquakem to be worked in without showing a ridge.

 *Note*

*Use a long nap roller to ensure an even coverage and that enough material is used to ensure a full “wet out” of*

*If there is not enough Aquakem on the substrate surface prior to the installation of the 300gsm chopped strand matt it will be difficult to obtain a full “wet out” of the matt.*

7.6.2 Install the pre – prepared 300gsm chopped strand matt into the wet resin body-coat.

*Note*

 *The fibreglass is to have a minimum 75mm minimum overlap*

7.6.3 The fibreglass matt is to be worked with a “Parsley Cutter*” (laminating roller)* to bring the resin through the matt thus ensuring a complete “wetting out” of the inside of the fibreglass chopped strand matt.

7.6.4 Use a garden sprayer to apply a *fine water mist.*

*Critical Step*

 Applying a water mist will help bring up the body coat through the mesh.

 It is important that the pressure of the roller brings material up, rather than trying to force it down. This process ensures the underside of the CSM is “wetted” by the Aquakem .

*Applying more Aquakem to the surface and trying to work it back into the matt will cause a dry laminate finish and is unacceptable.*

 7.6.5 The sufficient quantity is indicated by surplus spots being forced up by the action of the roller.

 7.6.6 Apply the second coat of Aquakem wet on wet and roll evenly.

 Allow these coats to dry (test thoroughly dry)

7.6.7 Check for pinholes or voids. If the surface appears rough and unfilled, apply a further coat across the full surface

 *Note*

*Additional coats must be applied at “right angles” to the previous body coat and take care to ensure that the Aquakem is worked into all areas with particular attention being paid to all internals and externals*

 **7.7 Upstands and walls**

7.7.1 Once the main area has cured and is able to be trafficked, install Situclad EWS and 300 gsm fibreglass reinforcement to all upstands / walls.

 *Note*

 *Ensure the Fibreglass reinforcement overlaps onto the floor by a 75mm minimum.*

7.7.2 Allow all areas of reinforced body coat to cure and check for shrinkage cracks and pinholes.

*Note*

*If a smoother finish is required on upstand and wall areas it is recommended that the use of surfacing tissue be incorporated into the system.(Refer: Situclad WCS Method Statement / Specification.*

**Observe minimum / maximum re-coat recommendations**

**8.0** **MAINTENANCE**

 ● If and exposed (uncovered) System Inspect yearly for damage.

 ● Re-apply Situclad EWS as appropriate.

 ● Do not allow wear to damage fibres of the CSM material

 ● Ease of repair is a major advantage with the allnex Situclad EWS membrane.

● Damaged areas are cut out and repaired 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

**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 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 membrane from damage, paint droppings, or other contamination that may prove difficult to remove or detrimental to the finished membranes characteristics and performance.

 The approved Applicator shall:

* Check membrane has sealed all surfaces.
* All cove details are full and complete with no gaps that may allow water ingress.
* Check all water falls to drains, with no ponding as specified.
* Ensure material is fully cured prior to other trades or service.
* Check all areas to ensure that all flashings are installed correctly.

**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 based on specific project detail.

*Note\**

 *The user should note that “wrinkling or seaming” is due to substrate movement*

 *The warranty is supported by allnex Construction Products.*

**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 Waterproofing Details● allnex Cleaning Recommendations

● allnex Surface Preparation Document● allnex Technical Bulletins

 *Include cross references to other sections where these contain related work.*

**Date: Feb 2023**

**Replaces NA**

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