

Specification

**Nuthane SBM**

**Polyurethane Cement Floor Topping**

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| **PREPARED FOR:** |  |
| **CONTRACT:** | Installation of allnex construction products;  **Nuthane SBM Polyurethane Cement**  Project: |
| **DATE:** | September 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 **Nuthane Finish Options** 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 |
| **PREPARED BY:** | Colin Nolan  allnex construction products  Ph - +64 3 366 6802  Mob - +64 21 956 160  Email - [colin.nolan@allnex.com](mailto: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 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 Nuthane systems are 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: ~ Nuthane SBM | 4mm DFT | |
| Primer: ~ No Odour Primer | Supascreed Primer *(only if required)* | |
| Body- coat Options: | Nuthane SBM | |
| 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: | allnex Sabreseal CR | |
| Floor Joint Sealant: | allnex Sabrebond SMP60 | |
| Pot-Life: ~ Supascreed Primer  ~ Nuthane Body-coat | +200C ~ 75%RH  +250C ~ 50%RH | 1 hour  20 – 30 minutes |
| Hard Dry Ready for Topcoats: ~ Nuthane Body-coat | +250C ~ 50%RH | 3 hours |
| Foot Traffic:  *Finished System* | +100C ~ 50%RH  +200C ~ 50%RH  +300C ~ 50%RH | 24 hours  12 hours  5 hours |
| Light Traffic:  *Finished System* | +100C ~ 50%RH  +200C ~ 50%RH  +300C ~ 50%RH | 48 hours  36 hours  16 hours |
| Full Cure:  *Finished System* | +100C ~ 50%RH  +200C ~ 50%RH  +300C ~ 50%RH | 5 days  3 days  2 days |
| Recoat : | Anytime within 24 hours. | |
| *After 24 hours: Severe mechanical abrasion* | |
| SG kg/litre: ~ Resin | Hardener | Nuthane Filler | 1.65 | |
| Solids Content ~ Nuthane Body-coat | 100% | |
| Thinning ~ Nuthane Body-coat  ~ Nuthane Standard Topcoat  ~ Nuthane Gloss Topcoat  ~ Nuthane TF Topcoat | Not Recommended  Not Recommended  Not Recommended  Mineral Turps  *Refer: Nuthane TF Topcoat mix instructions 5.6.3* | |
| Clean up | allnex acetone | |
| Dangerous Good Class | Refer SDS sheets | |
| Packaging ~ Supascreed Primer  ~ Nuthane Resin  ~ Nuthane Hardener  ~ Nuthane SBM Aggregate  ~ Nuthane Catalyst  ~ Nuthane Topcoat Filler  ~ Supadeck TF Hardener  ~ Nuthane Gloss Resin - Colours  ~ Nuthane Gloss Resin -Clear  ~ Nuthane Gloss Hardener | 6.4 Litre Kit  20kg Plastic Pail  20kg Plastic Pail  20kg Plastic lined paper bag  500ml Metal container  4kg Plastic container  2.75kg Metal container  14.7 kg = 10 litres - Metal Container  9.8 kg = 10 litres - Metal Container  1 kg = 1 litre - Plastic Container | |
| Shelf life ~ Resins | Hardeners | Catalyst  ~ Powders | 12 months from date of manufacture  6 months from date of manufacture  *(After this period consult with allnex)* | |

**2.13 Nuthane– SBM System**

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| **System Component** | **Nuthane SBM** |
| **Primer Coat**  **Coverage** | Supascreed Primer  Only if required  6.0 m2 / Litre |
| **Body Coat**  **Coverage** | Nuthane SBM  Refer: 5.5.2 |
| **Non -Slip**  **Surface Finish** | Surface Finish  Design options  Refer: 2.14 |
| **Topcoat Option A**  **Coverage**  **1st Coat**  **2nd Coat** | Nuthane Standard – Matt Finish  No Odour  2.0 - 2.5 m2/ litre Note #1  4.0 m2/ litre Note #2 |
| **Topcoat Option B**  **Coverage**  **1st Coat**  **2nd Coat** | Nuthane TF Topcoat – Gloss Finish  No Odour  2.0 - 2.5 m2/ litre Note #1  4.0 m2/ litre Note #2 |
| **Topcoat Option C**  **Coverage**  **1st Coat**  **2nd Coat** | Nuthane Gloss Topcoat  Slight odour – fast return to service  2.0 - 2.5 m2/ litre Note #1  4.0 m2/ litre Note #2 |
| **Special Topcoat Colour Options** | Refer: allnex Construction Products for advice |
| **Clear Glaze Coat**  **Coverage**  **1st Coat**  **2nd Coat** | Clear Glaze Coat for over Quartzzite Coloured Aggregate  Nuthane Gloss Topcoat – Clear  2.0 - 2.5 m2/ litre Note #1  4.0 m2/ litre Note #2 |
| **Finished DFT Thickness** | Chosen to suit requirements  Refer: allnex Construction Products for advice |

*Note # 1 Dependent on aggregate over-seed choice.*

*Note # 2 Second Coat is optional, but recommended; as it will provide a more even and uniform finish.*

**2.14 Nuthane Surface Finish Design Options**

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| **Nuthane**  **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 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 finish floor thicknesses.

4.1.4 Substrate Moisture Content allnex Nuthane 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”.*

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

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

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

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

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

4.1.10 Anchorage recess grooves are to be installed at all screed termination points, around drains, perimeter edges, doorways, at all walls, both sides of control joints, columns, etc.

Installed at 50mm, running parallel to walls, control joints, etc.

Anchor recess grooves are to be 5mm wide by 6-8mm deep

**4.1.11 New Concrete Surface Preparation**

|  |  |
| --- | --- |
| **allnex recommend mechanical abrasion techniques as the surface preparation method.** | |
| Preferred Option | Captive Shot blasting |
| Secondary Option | Bush Hammers |
| Third Option | Diamond Grinding |
| ***Minimum Requirement*** | ***CSP 5*** |
| *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 Nuthane 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 Supascreed Prefill.

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

4.2.10 Anchorage recess grooves are to be installed at all screed termination points, around drains, perimeter edges, doorways, at all walls, both sides of control joints, columns, etc.

Installed at 50mm, running parallel to walls, control joints, etc.

*Anchor recess grooves are to be 5mm wide by 6-8mm deep*

**4.2.11 Existing Concrete Surface Preparation**

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

**4.3 Plywood | Fibre-cement**

*Refer: allnex Constriction Products.*

## **5.0 INSTALLATION OF ALLNEX NUTHANE SB OR NUTHANE SBM FLOOR FINISH**

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

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

5.3 Box blend different batches of Nuthane to ensure evenness of colour.

**5.4 Primer Application**

*Note*

*Primer is only required on weak or porous concrete.*

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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 Nuthane SBM**

**5.5.1 Nuthane SBM - Mix Ratio**

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| --- | --- |
| **Element** | **Mix Design** |
| Nuthane Resin Part A | 4.34kg – 4.44kg |
| Nuthane Resin Part B | 4.34kg – 4.44kg |
| Nuthane SBM Aggregate | 20kg |
| Mix Total | 28.68 kg – 28.88 kg |

**5.5.2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Approx. Nuthane SBM Basecoat Coverage per bag mix** | | | | | |
|  | **Nuthane SBM**  **gauging trowel set at 3mm Overseed will take to +4mm** | **Nuthane SBM**  **gauging trowel set at 4mm Overseed will take to +5mm** | **Nuthane SBM**  **gauging trowel set at 5mm Overseed will take to +6mm** | **Nuthane SBM**  **gauging trowel set at 6mm Overseed will take to +7mm** | **Nuthane SBM**  **gauging trowel set at 7mm Overseed will take to +8mm** |
| **Nuthane Resin** | 4.4kg | 4.4kg | 4.4kg | 4.4kg | 4.4kg |
| **Nuthane Hardener** | 4.4kg | 4.4kg | 4.4kg | 4.4kg | 4.4kg |
| **Nuthane SBM Aggregate** | 20kg | 20kg | 20kg | 20kg | 20kg |
| **Total Weight M2** | 28.8kg | 28.8kg | 28.8kg | 28.8kg | 28.8kg |
| **Mix Coverage** | 5.81m2 | 4.36m2 | 3.49m2 | 2.90m2 | 2.49m2 |

5.5.3 Accurately weigh and power mix the Nuthane Resin & Hardener and add the Nuthane SBM 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.

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

5.5.4 Apply Nuthane at the specified rates Refer: 5.5.2.

5.5.5 **Gauging Trowel | Spreader application:**

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

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

*Note*

*If using a notched trowel, applications below 4mm may “drag” and therefore a gauging trowel with cams is the preferred application technique.*

5.5.6 Apply in a manner to maintain a wet edge, immediately after placing use a spike roller to assist with levelling,

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

5.5.8 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

5.5.9 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.

5.5.10 Allow to Cure.

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

*Refer: Section 2.13*

**5.6** **Application of Nuthane Topcoats**

5.6.1 Once finished and hardened apply the chosen Nuthane Topcoat.

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

**5.6.2 Nuthane Topcoat – Standard – Matt Finish**

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| --- | --- |
| **Element** | **Mix Design** |
| Nuthane Resin Part A | 4 kg |
| Nuthane Hardener Part B | 4 kg |
| Nuthane Topcoat Filler | 4 kg |
| Mix Total | 12 kg *= Mix Total 8 Litres* |
| Mix Coverage  ~ First Coat  ~ Second Coat | 2.0 - 2.5m2/ litre - *dependent on aggregate over-seed choice*  4.0 m2/ litre |

**5.6.3 Nuthane TF Topcoat – Gloss Finish**

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| --- | --- | --- |
| **Element** | **Mix Design** | |
| Nuthane Resin Part A | 1.5 kg | |
| Catalyst Addition | 0.2% - O.6% *(3 – 9 grams | mls/mix)* | see chart below |
| Supadeck TF Hardener | 2.75 kg | |
| Nuthane Topcoat Filler | 1.5 kg | |
| Mineral Turps | 200 mls | |
| Mix Total | 5.75kg *= Mix Total 4 litres* | |
| Mix Coverage  ~ First Coat  ~ Second Coat | 2.0 - 2.5m2/ litre *- dependent on aggregate over-seed choice*  4.0 m2/ litre | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Catalyst addition to resin ratio** | **Addition rate to full 20kg pail of resin** | **Pot life (Minutes)** | **Touch dry time (hrs)** |
| 0.2% | 40 grams | 21 | 6.5 |
| 0.3% | 60 grams | 18 | 5.5 |
| 0.4% | 80 grams | 16 | 5 |
| 0.5% | 100 grams | 13 | 4.5 |
| 0.6% | 120 grams | 10 | 4 |

*Note*

*The catalyst is needed in the resin to obtain good cure times.*

*Failure to add that catalyst will result in non-occurrence of cure.*

*It may be more convenient to add the catalyst to a full pail (20kg) of Nuthane resin.*

**5.6.4 Nuthane Gloss Topcoat – Gloss Finish**

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| **Element** | **Mix Design** |
| Nuthane Gloss Resin Part A | 10 litres |
| Nuthane Gloss Hardener Part B | 1 litre |
| Mix Total | 11 litres |
| Mix Coverage  ~ First Coat  ~ Second Coat | 2.0 - 2.5m2/ litre *- dependent on aggregate over-seed choice*  4.0 m2/ litre |

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

5.6.6 Thinning of Topcoats

Only the Nuthane TF System Topcoat may be thinned. *Refer: 5.6.3*

5.6.7 The application of the Topcoats is should be undertaken in the following manner:-

Roller application technique only.

*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 Nuthane System.

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

*Note*

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

7.2 The interface between the allnex Nuthane flooring and stainless-steel drains, etc. are to be sealed using allnex Sabrebond SMP60 sealant.

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

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

7.5 All cold joints between sections of the Nuthane Flooring /coves etc. may be sealed using allnex Sabrebond SMP60 sealant.

**8.0** **MAINTENANCE**

Ease of repair is a major advantage with allnex Nuthane 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 licensed allnex contractor 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 current 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

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**allnex Construction Products, a Division of allnex New Zealand Ltd**

**Auckland** – 14 Industry Road, Penrose. phone: 09-583-6544.

**Hamilton** - 18 Somerset Street, Frankton. phone: 07-847-8658.

**Wellington –** Unit 9A, 4 Glover Street, Ngauranga Gorge. phone: 04-240-0305.

**Christchurch** – 112 Carlyle Street, Sydenham. phone: 03-366-6802.

**Customer Service: 0508-882-288** [**cs.constructionnz@allnex.com**](mailto:cs.constructionnz@allnex.com)

[**www.allnexconstruction.com**](http://www.allnexconstruction.com)

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