



**GEIL LVT & VINYL WETROOMS SPECIFICATION IW10092020**

<b>Project:</b>	Laminate Vinyl Tile (LVT) /Sheet Vinyl Wet Rooms (With no Set Downs in Subfloors) Installations: For bathrooms with pre-installed moulded shower units and baths. Also for kitchens and Laundries.
<b>Specification Prepared for:</b>	Qualified Flooring Installers that are Certified in the application of RLA Polymers Flexi-Seal P.U.D. Waterproof Membrane.
<b>Specification Prepared by:</b>	Ian Williams Gilt Edge Industries Ltd., P.O Box 7515, Sydenham, Christchurch.
<b>Date:</b>	10:09:2020
<b>Proposed Systems:</b>	Protect Crete Densi-Proof. Roberts Universal Acrylic Primer. RLA Flexiseal P.U.D. Waterproof Membrane. UZIN PE 280 Waterbased Primer. UZIN NC 160 Levelling Compound. UZIN NC182 Rapid Set Low Slump Mortar. UZIN NC 888 Rapid Patching/ Smoothing Compound. UZIN KE68 1-component hybrid adhesive (for LVT) UZIN KE 2000s Universal Acrylic adhesive (for vinyl)

**Scope:**

For the application of tanking, levelling systems, and installation of the 'as specified' Laminate Vinyl Tile (LVT) and or Sheet Vinyl.

-----

The following installation guideline is to be read in conjunction with all relevant industry standards and Manufacturers technical Datasheets provided.

All substrates are to comply with the New Zealand standard NZS/AS 1884-2013 Floor coverings - Resilient sheet and tiles - Laying and maintenance practices in particular clause 3.1.1.4

(a) Planeness - when a straightedge 3000 mm long is placed at rest at two points 3000 mm apart on the surface, no part of the surface shall be more than 3 mm below the straightedge.

(b) Smoothness (abrupt deviation of the surface) - When a straightedge 200 mm long is placed at any position at rest on the surface, no part of the surface shall be more than 0 mm below the straightedge.

(c) Soundness - the surface shall be without cracks, crazing, dusting, rain damage, spalling, efflorescence or delamination

**NOTE:**

All substrates with poor surface form or excessive profile and unsuited to the direct application of the floor coverings must have corrective systems applied (e.g. steel-trowelled underlay), as agreed between the purchaser and the floor laying contractor.

Before laying operations begin, materials such as grease, oil, paint, existing floor coverings, curing or parting agents, or any surface treatment which could adversely affect adhesion shall be removed from the subfloors. The concrete surface should be a steel trowel finished but not a burnished finish. Mechanical diamond grinding or Captive Shot-blasting will remove all surface contaminants eg. demarcation lines, paint residues, release and curing agents and provide an open porosity that allows

For the application of and surface penetration of primers and adhesives. All substrates are to be thoroughly vacuumed to remove any dust, dirt and loose materials.

This copy sourced from Building Tender Services Limited - [www.btsl.co.nz](http://www.btsl.co.nz)

UZIN Substrate correction systems are recommended to provide compliance to the flooring industry standards.

Substrate preparation is fundamental to the longevity and overall performance of all flooring systems.

**Site Conditions:**

NZS/AS1884 – 2013

3.1.2 Air-conditioned areas states:

'Where air conditioning is installed, no underlayment or floor covering shall be installed on the subfloor until the conditioning units have been in operation at expected operating temperature and humidity for at least seven days. During this period the temperature and humidity shall not be allowed to fall outside the recommended limits of the manufacturer of the floor covering. These conditions shall be maintained during installation and for 48h thereafter. Where air conditioning is to be installed but is not yet operational, it is recommended that the room be maintained within the temperature range of 18°C to 30°C for 7 days prior to and during installation and for 48h thereafter.

NOTE: Without such temperature control at this stage, subsequent movement of the subfloor, underlay and floor covering may occur.

All warranties will be void if installations are carried out in site conditions that differ from the manufacturers installation parameters.

**Substrate PH:**

All substrate PH levels are to comply with NZS AS 1884-2013,

**Substrate Moisture**

New Zealand Standard NZS AS 1884-2013 Floor coverings - Resilient sheet and tiles - laying and maintenance practices 2.1.1.2 states 'Before subfloor preparation is performed and a floor covering is installed on a concrete subfloor the dryness of the concrete shall be determined as described in Appendix A'.

The acceptable level of relative humidity for a concrete substrate to receive resilient flooring is 75% RH or less.

A2.2 Hygrometer testing – Concrete only (in-slab method)

In-Slab method: In the case of hygrometer readings within the concrete floor, typically, a specifically manufactured plug is inserted into a hole drilled of a specific diameter and depth as per manufacturer's instructions. The plug provides for an air space sealed from the ingress of surface atmosphere, which is exposed to the specified depth of the concrete floor.

**Note: If substrate moisture exceeds the industry standard required or there are other subfloor issues contact Gilt Edge Industries Ltd for instruction**

## **Product Descriptions:**

### Protect Crete Densi-proof:

At time of pour, Protect Crete Densi-Proof is applied to the concrete slab as per manufacturer instructions.

Densi-Proof is an integral **moisture barrier (water proofing) de-contamination (purging) and curing solution** for all concrete applications.

Densi-Proof deeply penetrates (non-film forming) the concrete forming a permanent non-destructive colloidal silicate gel. Densi-Proof is a colloidal silica that moisture proofs and densifies the concrete slab, enabling any coating or covering to be applied without being weakened and compromised by high RH (Relative Humidity.)

### Roberts R48 Universal Acrylic Primer.

Roberts R48 Universal Primer is a rapid drying solvent free low VOC water based acrylic primer. For use over porous and non-porous substrates, Roberts Universal primer is compatible with cement based ceramic tile adhesives and levelling compounds.

### RLA Flexiseal P.U.D Waterproof Membrane.

Flexi-Seal PUD is a blue, water based polyurethane modified, flexible waterproofing membrane. It is a single part fast drying and UV stable and does not require the use of any reinforcement. Can be used over concrete, render, rendered brickwork, block work, fibre-cement, gyprock, plywood and particle board surfaces.

### UZIN PE280 Water-based Primer

UZIN PE280 is a very low emission and film-forming dispersion primer for use over residues of adhesives and levelling compounds and as a bonding agent on dense and smooth surfaces or directly onto epoxy and PU based primers. For use prior to application of levelling compounds on cement and calcium sulphate screeds for floor covering and wood flooring installations.

### UZIN NC160 Levelling Compound

UZIN NC160 Leveller is a cementitious Filling, smoothing and self-levelling compound with high performance plasticiser technology for installation prior to the laying of textile and elastic floor coverings of all types, as well as ceramics and natural stone linings. For interior use only.

### UZIN NC182 Low Slump trowel applied Mortar.

UZIN NC 182 Rapid cure Low slump Mortar is a water mixed cementitious filling, smoothing and high build levelling compound that will finish to a feather edge and build to any thickness.

#### UZIN NC888 Surface Flushing Compound.

UZIN NC888 Surface Flushing Compound is a water mixed very fine, smooth and extremely rapid setting compound on substrates without primer and for smoothing out to a feather-edge, for smoothing and filling pin holes and small voids to a maximum thickness of 4.0mm. UZIN NC888 has excellent bonding properties to a wide variety of surfaces.

#### UZIN KE68 1-component hybrid adhesive (for LVT)

UZIN KE 68 is a ready to use and user-friendly 1-component hybrid adhesive. The adhesive with very low emissions is the ideal problem solver in areas with higher demands, e. g. in areas with higher temperatures, heavy contract commercial loadings, or with water coming from above in the joints.

#### Uzin KE2000s – Universal Flooring Adhesive (for Sheet Vinyl.)

UZIN KE 2000s is a strong dispersion adhesive with short open time and long working time for application with the pressure sensitive, wet set adhesive and double drop bonding method. For use on floors and walls. For interior use.

#### **Wet Rooms- Tanking, Levelling Systems Installation Procedure:**

- Aggressively diamond-grind the substrate set downs to remove all laitence and existing surface contaminants with appropriate Concrete grinding equipment.
- Roller apply Roberts Universal Waterbased Primer to the cured substrate ready for Flexiseal P.U.D application. Do not prime any surface with anything else but Uni Prime. All other surface contaminants or coatings must be removed.

*Prime all Gib, cement board, timber, plywood, particle board, concrete and cement screeds with Roberts Universal Primer.*

- Apply Roberts 48 Universal Primer to the semi/porous Substrates:  
Apply an even layer of Universal Primer as per manufacturers dilution rates to the semi/porous substrates).
- Allow primer to dry to a clear film (approx. 2 hours @ 25°C). Once Universal Primer is a tack free clear film, only then can levelling compounds be applied over the primer.
- At change of plane e.g. wall / floor or wall / wall junctions and floor waste water outlets use the following method:

Apply Butylseal tape as per manufacture and RLA Polymers applicator training guidelines to all applicable joining in wall cladding and waste water outlets. *NB: any cladding joins that are wider than 6mm must first be filled with Polyethylene Foam Backer (PF Rods) prior to tape application.*



- Apply two coats of Flexi-Seal PUD to the surface the second coat 90 degrees to the first to ensure even and complete membrane coverage.
- Wait 2 days for full cure before installing UZIN Levelling Systems.
- Roller apply UZIN PE280 w/based primer over Flexi-Seal PUD with a water-based paints roller (PM012495) at a spread-rate of 6 sqm per kg without ponding and allow to dry.
- Power mix UZIN NC160 Leveller powder with water at a ratio of 1 x 20kg bag to 5.25L of clean potable water in a suitable mixing container until a smooth and homogeneous texture is achieved.
- Apply mixed UZIN NC160 Leveller to the prepared/primed substrate to a minimum required thickness of 3mm.
- Allow UZIN NC160 Leveller to cure.
- Power mix UZIN NC182 Low slump Mortar with water at a ratio of 1 x 20kg bag to 5.0L of clean potable water in a suitable mixing container until a smooth and homogenous texture is achieved.
- Apply mix UZIN NC182 Low slump Mortar to the primed (UZIN PE280 water-based primer) substrate to required thickness.
- Allow UZIN NC182 Low slump Mortar to cure.
- UZIN NC888 Surface Flushing compound is to be used for the smoothing and filling of substrate pin holes and small voids prior to the installation of floor-coverings.

**NB:** The installation of the above Cementitious levelling Compounds are to be carried out by an approved installation technician that is able to apply to a smooth finish, as required by New Zealand Standard NZS AS 1884-2013 Floor coverings - Resilient sheet and tiles.

#### **Laminate Vinyl Tile (LVT) Installation Procedure:**

- Install (LVT) plank as per manufacturer's instructions into the wet UZIN KE68. Weighting may be required in some areas/situations.
- UZIN KE68 1-component hybrid adhesive to be applied to the substrate as per manufacturer's instructions.
- Allow adhesive cure (approx. 24hrs) with a final cure reached after 3-5 days.

#### **Sheet Vinyl Installation Procedure:**

- Install sheet vinyl as per manufacturer's instructions into UZIN KE2000s.



- UZIN KE2000s Universal Acrylic Adhesive to be applied to the substrate as per manufacturer's instructions.
- Allow adhesive cure (approx. 24hrs)

Consult with Gilt Edge Industries to confirm the recommended adhesive.

Manufacturer's and supplier's documents relating to this specification:

- Gilt Edge Industries Technical Data Sheets
- Gilt Edge Industries Materials Safety Data Sheets
- RLA Polymers Technical Data Sheets
- RLA Polymers Material Safety Data Sheets
- Laminate Vinyl Tile (LVT) or Sheet Vinyl suppliers Technical Data Sheets

**NB:** All installations are to be carried out by an approved installation technician that provides all Health and Safety Data and is fully compliant with manufacturer and site requirements.

Flexi-Seal PUD Waterproof Membrane must be applied by a certified applicator.

All installations are to be carried out in accordance with the AS/NZ current standards and manufacturers' technical datasheets available on [www.uzin.co.nz](http://www.uzin.co.nz) and [www.giltedge.co.nz](http://www.giltedge.co.nz)

Manufacturer/Supplier Contact:

**Ian Williams**  
**Technical Consultant**  
**Gilt Edge Architectural**

**M:** 0274 364 642

**E:** [ian@giltedge.co.nz](mailto:ian@giltedge.co.nz)

[www.giltedge.co.nz](http://www.giltedge.co.nz)