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## SITUCLAD EWS SYSTEM EPOXY WATERPROOFING SYSTEM

**DESCRIPTION:**

**SYSTEM EWS**

Epoxy waterproofing system reinforced with fibreglass to form a continuous membrane which is fully boned to the substrate. Based on the proven **Aquaguard 101** epoxy waterproofing, Situclad EWS is used for more comprehensive waterproofing. By forming a laminate membrane it is more durable than straight applied Aquaguard 101.

**Suggested Uses:**

- For external waterproofing of concrete prior to the installation of tiles, pavers, exterior carpet etc.
- Internal wet areas: Bathrooms, kitchens, laundries on Concrete, plywood, fibrecement
- Planters
- Concrete Tanks & chemical bunds

**Not Recommended:**

- As an exposed floor or wall surface (must be overcoated.eg Aquacolour, Flexiglaze, Terratuff, Supadeck UV TC)
- For exposed to UV, exterior decks, roofs etc (use Terraflex system).
- Over existing coatings.
- Continuous immersion in strong acids, alkalis or aggressive solvents.

**PROPERTIES / FEATURES:**

- 30 Years + use in New Zealand.
- Compliant with **E3 Internal Moisture**: Internal, Watersplash, section 3.1.1.eg bathroom floor and shower base use.
- Is a solution for **E2/AS1 External Moisture** for waterproofing walls and floors on the internal side
- Compliant with **BRANZ good Trade Practice** guide. Concrete Floors section 8.6.4. Based on the proven **Aquaguard 101** epoxy system.
- SITUCLAD EWS is a glass reinforced epoxy system applied in situ to provide a jointless, impact resistant, waterproof surface.
- Good chemical resistance.
- Good impact and abrasion resistance.
- May be applied to damp surfaces.
- Low odour. Will not contaminate foodstuffs during application.
- Non-toxic.; Non-flammable. Will not peel or flake.
- Chemical resistance: good all round performance

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**PROPERTIES/ FEATURES:**  
(cont'd)

- Laminate thickness – 1.00mm (0.040”) approx.
- Hardness                   DIN-SHORE       65; PENCIL 6H
- Minimum application temperature - +10°C.
- Colour – White. May be pigmented pastel colours.

**FILM BUILD:**

Total dry laminate build – 1mm approximately.

**LIMITATION:**

- Do not use exposed to exterior UV situations. (may be overcoated with flexiglaze)
- Do not apply to structures with excessive joint movement.  
NB: The joints in substrates will move causing this product to buckle. This is normal and expected. It is not possible to get lay-flat joints if the substrate moves.

**SURFACE PREPARATION:**

**Concrete**

This system may be applied to damp concrete and concrete that is greater than 7 days old.. However it is always preferable to allow as long as possible to cure and dry eg. allow 28 days cure time after the concrete pour. Surface preparation must always occur. Grind or shot blast to prepare the concrete prior to priming. Check falls and reset falls if necessary using Lockfast Floor Levelling Compound FLC.

Walls: fill holes with K125 epoxy (eg gaps in masonry)

Wall / floor interface and gaps to form a fillet.: fill holes with K125 epoxy (eg gaps in masonry).

**Internal plywood, fibrecement etc**

Surface preparation must always occur. Securely screw and glue fix. Sand well prior to priming. Check falls and reset falls if necessary using Lockfast Floor Levelling Compound FLC.

Walls: fill holes with Fairing cream epoxy

Wall / floor interface and gaps : see joints below and the use of joint safe tape and mesh.

**Priming**

Prime all substrates as prepared with Aquaguard 101. This should be applied as one coat at approximately 5m<sup>2</sup>/mixed litre. Mix and apply Aquaguard 101 as per data sheets and specification. Allow the Aquaguard 101 to cure 24hours prior to proceeding. Sand and reprime if topcoating is delayed more than 5 days. Take care to apply Aquaguard 101 into joint areas with a brush. Take care to treat the surface and prime all vertical wall areas i.e. coves.

**Application Conditions**

Products such as this require **good drying conditions** to allow water to evaporate from the coating. Do not apply in temperatures less than 10°C or when wet weather is likely. Good **air movement** is the best method of drying waterbased products.

Primary Installation

**Joints**

All joint gaps should be filled with a polyurethane mastic applied with a broad knife. After priming and joint filling lay a self adhesive strip of **Joint Safe tape** over all joints. It is important to identify movement joints and treat with the joint safe tape as shown below.

All joints are then taped prior to the full membrane application. Most joints will require a 80mm wide strip of glass CSM. Another option is to use 75mm reinforcing tape. This gives a lower profile. Use slip joint lap prior to glass strips. Wider strips will be needed to form coves. Coves should be laid over cove formers eg: timber, PVC.

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

## Secondary Installation

Following priming and joint preparation roll a full coat of Aquaguard 101 body coat over the whole surface at 3m<sup>2</sup>/Lt. Include roll- downs into drains and cove ups behind flashings. Lay the 300gsm chopped strand matt (CSM) fibreglass mesh into the body coat. Allow 75mm overlaps. This is a critical step and take care this 75mm overlap is achieved. Apply a further body coat of Aquaguard 101, at 3m<sup>2</sup>/Lt, wet on wet. Roll the entire surface with a laminating roller. 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 Aquaguard 101. The sufficient quantity is indicated by surplus spots being forced up by the action of the roller. In warm conditions keep water misting to ensure 100% wetting of the CSM. If the surface appears rough and unfilled, apply a further coat across the full surface.

### Note:

The above process description is critical. Long term success is critical on the successful and detailed completion of the laminating step.

## SECONDARY PHASE INSTALLATION:

Once cured , with cautions, pavers, tiles, exterior carpet etc may be bonded directly. Ensure the membrane is not damaged.

### SUMMARY:

#### Description:

EWS Epoxy waterproofing system

#### Components:

- Gap fillers: walls K125 epoxy, wall/floor interface: K125 epoxy. Floors Superset
- Primer: Aquaguard 101 @ 5m<sup>2</sup>/Lt
- Aquaguard 101 @ 3m<sup>2</sup>/Lt
- Chopped strand matt 300gsm
- Aquaguard 101 @ 3m<sup>2</sup>/Lt
- Complete

### BONDING TO EWS:

Floor Levelling: prime with Neoprime, then use Lockfast FLC levelling compound or Superset or Unifloor

#### Pavers/Ceramic Tiles

- MK95 polyurethane adhesive, one component.
- Or Neoprime primer and Red label cement adhesive.

#### Carpet

Super 7

#### Timber

MK95 polyurethane adhesive

**PRODUCER STATEMENT:**

Nuplex Industries Ltd state that Situclad EWS is fit for the purpose of waterproofing under applied substrates (eg: concrete, tiles etc) and hence conforms to the relevant parts of the New Zealand Building Act. A 15 year warranty applies upon compliance with our technical application details.

- 25 Years + use in New Zealand.
- **Compliant with E3 Internal Moisture:** Internal Section 3.0 Watersplash, section 3.1.1. eg bathroom floor and shower base use.
- **A solution to E2/AS1 External Moisture** for waterproofing walls and floors. Section 12.2.2 DPM materials. Aquaguard is an epoxy waterproofing material formulated to prevent moisture entering a structure. This product is often used in retrofit (post applied) applications. Also used as a flashing.
- Compliant with **BRANZ good Trade Practice** guide. Concrete Floors section 8.6.4. Based on the proven **Aquaguard 101** epoxy system.

