

**CHEMICAL
RESISTANCE:**

Water resistance 25°C	Excellent
Water resistance 100°C	Good
10% Hydrochloric Acid	Good
10% Acetic Acid	Good
10% Sulphuric Acid	Good
10% Caustic Soda	Excellent
Xylene	Excellent
MEK	Fair

FILM BUILD:

Total dry laminate build – 1mm (0.040”) approximately.

THINNING:

- Aquacolour may be thinned up to 10% with clean potable water.
- Do not thin SITUCLAD E laminating resin (Aquaguard 101).

**SURFACE
PREPARATION:**

Concrete

Allow full 28 days cure time after the concrete pour. Acid etch or grind to prepare the concrete prior to priming. Fill blow holes with Superset or Epoxy Fairing Cream.

Priming

Prime all substrates as prepared with Aquaguard 101. This should be applied as one coat at approximately 5m²/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 3 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 throughout the process** 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.

Joints

Plywood and concrete joint gaps should be filled with a polyurethane mastic (Elastothane 230) applied with a broad knife. All joints should then be taped prior to the full membrane application. It is recommended to use Nuplex joint safe Tape on all cracks and internal corners, particularly in critical situations. This is a highly flexible tape. Most joints will then require a 150mm wide strip of glass CSM. Use slip joint lap prior to glass strips (the JointSafe tape fulfils this function).. 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.

SITUCLAD E SYSTEM (cont'd)**PRIMARY PHASE
INSTALLATION:**

Following priming and joint preparation roll a full coat of Aquaguard 101 body coat over the whole surface at 3m²/Lt. Include roll-downs into drains and cove ups behind flashings. Lay the 300gsm 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 5m²/Lt, wet on wet. Roll the entire surface with a fiberglass laminating roller. (Apply a water mist to help “wet out” the laminate during this process.) This will 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. Keep water misting to ensure 100% wetting.

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:**

Apply a subsequent coat of Aquaguard at 7m²/Lt incorporating a surfacing tissue. **The Aquaguard 101 must be fully cured, 48hrs, prior to Aquacolour application.** Once cured, apply a finishing coat of Aquacolour at 8m²/Lt (colour as required).

Allow to fully cure for a minimum of 48 hrs.

SUMMARY:**Description:****Components:****Epoxy wall cladding / Lining system**

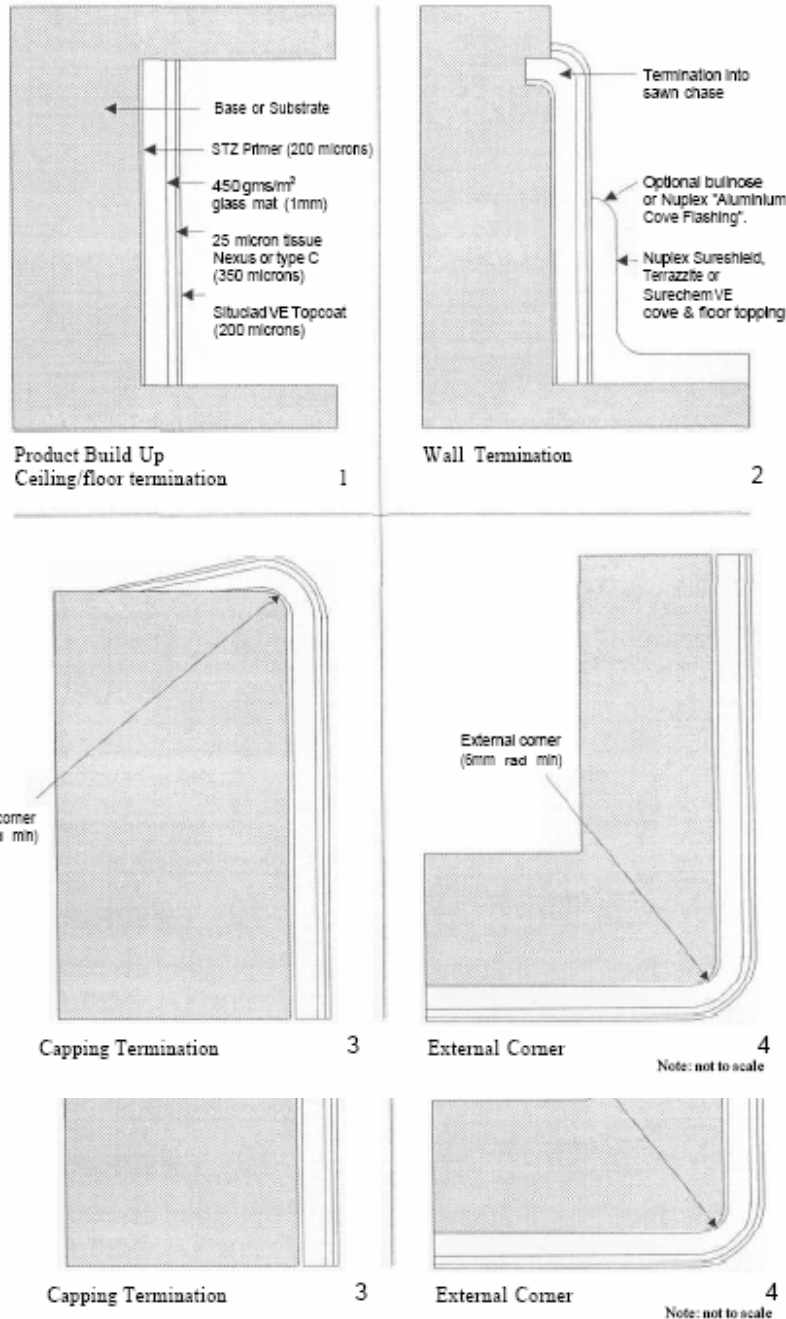
- Aquaguard 101 as a primer, 5m²/Lt
- Joint safe tape and/or fibreglass reinforcing
- Aquaguard 101 @ 3m²/Lt
- Chopped strand matt 300gsm
- Aquaguard 101 @ 5m²/Lt
- Aquaguard @7m²/Lt with reinforcing tissue
- Aquacolour @ 8m²/Lt

Design Details For Situclad E (WCS).

Full details are on our website:

www.nuplexconstruction.co.nz/protective finishes / liners / design details

NUPLEX FIBRECLENE & SITUCLAD VE DESIGN DETAILS



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