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FIBRECLENE

Hygienic, Smooth Wall Lining

GENERAL DESCRIPTION:

PROPERTIES/ FEATURES:

Glass, reinforced, polyester wall cladding system.

For use wherever a smooth, seamless, hygienic, easy to clean, white finish is required.

- Fibreclene is a **GRP (glass reinforced plastic) cladding** system applied in situ to provide a smooth, jointless, impact resistant, hygienic surface, which follows the substrate contours, profiles etc.
- Good stain and chemical resistance.
- Short application period.
- Excellent impact and abrasion resistance.
- **Easily cleaned.**
- May be applied to a wide variety of surfaces.
- Easily repaired and maintained.
- Complies with Health, Agriculture and Fishery Department requirements.
- Cured films are non toxic.
- Will not peel or flake.
- **Finish – semi gloss. Normally white**
- Laminate thickness (approx) 1.75mm (0.070”)
- Laminate hardness – Barcol (934-1) 45
- Colour – white, pastel colours to order (minimum quantities may apply).
- Minimum application temperature +10°C.
- Fibreglass reinforcing weight ,450gms/m² CSM E matt.
- Surfacing tissue – 25 micron.

SUGGESTED USES:

- Food storage and processing plant.
- Commercial kitchen walls
- Chemical bunds – refer to chemical resistance chart.
- Freezing works, abattoirs, slaughter houses
- Dairy factories.
- Chemical processing plants.
- Pharmaceutical filling and processing areas.
- Storage tanks / bunds.: walls and floors

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FIBRECLENE (cont'd)**Substrates**

- Concrete, Precast, masonry, plywood
- Not recommended to be applied to damp or green surfaces.
- Concrete: 28 day cure minimum
 75% RH maximum
 18% moisture maximum
- Timber: 12% moisture maximum
- Do not apply within close proximity of foodstuffs. (this only applies during 3hrs of the application time)
- Laminate should not be radiused less than 6mm around external or internal corners.
- Do not apply over pointed blockwork (pointing must be flushed and cured).

CHEMICAL RESISTANCE:

(Refer to chemical resistance chart)

- Chemical resistance improves with cure. Maximum resistance is achieved after 3 days cure at +20°C. Low temperature cure will extend this period.
- Resistant to fats, oils, most solvents, moderate strength acids and alkalis.
- Not resistant to chlorinated solvents.

APPLICATION METHOD:

- a) Hand lay-up using parsley cutter rollers
- b) Chopper gun. Final wet out by hand. Gel coat – roller brush or spray.

COVERAGE RATES:

STZ Primer	4-6m ² /litre
Fibreclene Resin	2.5kg/m ²
Chopped Strand E Matt	450gms/m ² E matt
Surfacing Tissue:	25 microns – 1m ²

TOTAL DRY FILM BUILD:

1.75mm approx

DRY TIMES:
(20°C 50% RH)

Laminate must be applied as a continuous process
 Resin gel time: 30 minutes (1% MEKP at 25°C)
 Recoat minimum: 60 minutes
 Recoat maximum: 18 hours
 (Note after this time severe abrasion of the surface followed by solvent swabbing with Styrene Monomer will be required to ensure satisfactory adhesion.)

Light use: 24 hours
 Full cure: 3 days at +20°C

FIBRECLENE (cont'd)

MIX RATIOS:

Add Nuplex STZ Hardener (MEKP) at a rate of between 1-2% by volume depending on the ambient temperature. Ensure catalyst is thoroughly mixed using a power stirrer prior to use.

Care: the topcoat applications of fibreclene resin need to cure completely. Thin polyester films are prone to surface cure inhibition in situations where the styrene evaporates quickly. This is particularly the case in situations where the topcoat is applied sometime after the laminate has been applied. Surface cure inhibition is shown by an overly glossy finish and a tacky feel.

To counter this, consider catalyst levels at 2% and add 1.0-1.5% Nuplex Wax solution (pre-warmed to fully dissolve). Stir this in well to the resin prior to catalyst addition.

SYSTEM:

The system is applied in this fashion:

1. Apply STZ primer to the prepared surface
2. Roll on an application of Fibreclene resin
3. Into that wet resin apply the 450gram CSM; sheets overlapped 75mm.
4. Immediately apply more Fibreclene resin and allow to cure.
5. Apply the surfacing tissue with further coats of Fibreclene resin.

THINNING:

Not recommended. Lubricate equipment using Styrene Monomer.

CLEAN UP:

- Nuplex Universal Cleaning Solvent
- Acetone

CAUTIONS:

- Ensure fire extinguishers are handy.
- Refer to appropriate material safety data sheets.

- Refer to Bulletin on “resin flooring – chemical emissions” for advice on this product and/or the MSDS.

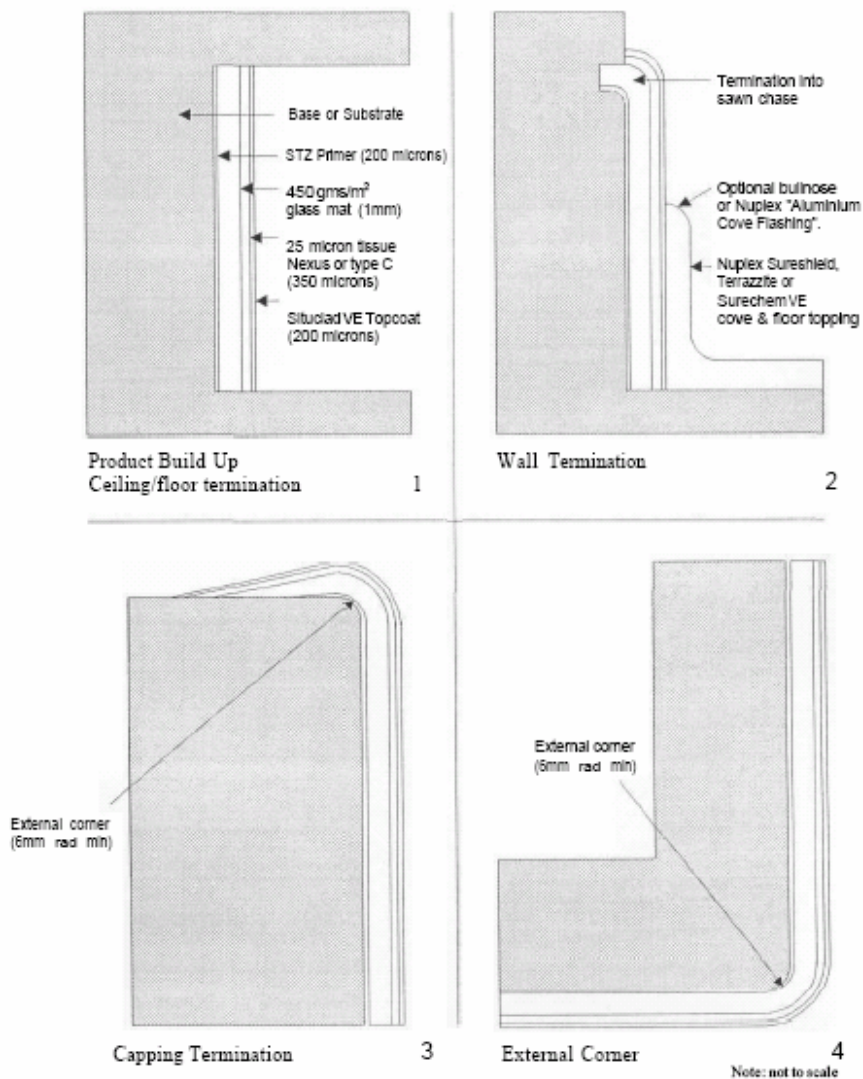
FIBRECLENE (cont'd)

Design Details.

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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NUPLEX CONSTRUCTION PRODUCTS WWW.NUPLEXCONSTRUCTION.CO.NZ

PO Box 1 2841, Penrose, Auckland Telephone: 0-9-579 2029, Fax: 0-9-525 3709, Email: bpdsales@nuplex.co.nz

H A M I L T O N
Telephone: 0-7-847 8658
Fax: 0-7-847 3766

PALMERSTON NORTH
Telephone: 0-6-353 3685
Fax: 0-6-353 3632

W E L L I N G T O N
Telephone: :0-4-477 7040
Fax: 0-4-477 7039

CHRISTCHURCH
Telephone: 0-3-366 6802
Fax: 0-3-379 0279