

Technical Data Sheet

Fibreclene Fibre- reinforced wall cladding system



DESCRIPTION:

Fibreclene is a GRP (glass reinforced plastic) polyester wall cladding system applied in situ to provide a smooth white, jointless, impact resistant, hygienic surface, which follows the substrate contours, profiles etc.

TYPICAL FEATURES | BENEFITS:

- Good stain and chemical resistance.
- Short application period.
- May be applied to a wide variety of surfaces.
- Excellent adhesion to properly prepared substrates.
- May be used in food safe areas.
- Easily repaired and maintained.
- Finish – Semi Gloss.
- Very good abrasion and scuff resistance.
- Cured Film is non-toxic.
- Resistant to peeling and flaking.
- Complies with Food environment regulations
- Easily cleaned.

PERFORMANCE DATA:

Element	Value	
Minimum Application Temperature: Air	+10°C	
Maximum Application Relative Humidity: Air	80%	
In-service Temperatures:	-20 to +100°C	
Laminate Hardness:	Barcol (934-1) 45	
Laminate Thickness:	1.75mm (0.070")	
Tensile Strength:	60.7 MPa	
Flexural Strength:	135.1 MPa	
Abrasion Resistance:	3.47g over 1000 cycles	
Thermal Shock:	119.3 MPa	
Permeability:	Impermeable to water vapour	
Water Absorption:	0.4% by weight	
Chemical Resistance:	Resistant to chemical spillage –cured 7 days at 25°C.	
Light Cure:	+25°C ~50%RH	24 hours
Full Cure:	+25°C ~50%RH	7 Days

TEST CRITERIA

In normal applications Fibreclene is applied to a wide variety of Substrates ranging from Gibraltar Board to reinforced concrete walls. The samples tested were obtained by applying a release agent to a substrate and the Fibreclene layer only submitted for testing. In all applications therefore, the results obtained Insitu will be much better, although the degree of improvement would depend upon the wall composition. E.g. Gib Board versus Concrete.

Note #1

After this time severe abrasion of the surface followed by solvent swabbing with Styrene Monomer will be required to ensure satisfactory adhesion.

RECOMMENDED USES:

- Commercial kitchen walls
- Construction and Mining Industry.
- Food storage and processing facilities.
- Pulp and Paper mills.
- Storage tanks / bunds. - walls and floors
- Highest Chemical Resistant System. Refer: Situclad VE
- Meat processing facilities.
- Chemical and Oil Industry.
- Pharmaceutical filling and processing areas.
- Dairy Industry.
- Silos.

NOT RECOMMENDED:

- Application below +10°C.
- Application to green (uncured) concrete. Allow 28 days.
- Application within proximity of foodstuff (odour may contaminate food products).
- Application to unsound substrates.
- Application to incorrectly prepared surface.

COLOURS:

Standard colour: White

Other pastel colours may be ordered. Minimum order quantities may apply.

SUBSTRATE:

All substrates shall be stable and solid.

Refer: [Fibreclene Specification Document for substrate types and requirements](#)

JOINTS:

All concrete control and construction joints should be carried through the Fibreclene.

Refer: [Fibreclene & Situclad Design Details](#).

QUALITY ASSURANCE:

The allnex approved Applicator shall ensure all QA checks have been undertaken prior to the installation process and subsequently during the installation process. The completed documentation must be made available to allnex and the client/clients authorised personnel.

The product is to be installed within the required control range to ensure a fully cured hard wearing monolithic Protective Lining System.

Information to be recorded daily is:

- Material batch numbers used.
- Sequence of mixing, ratios and quantities and formula.
- Substrate moisture content & Substrate temperature.
- Ambient temperature | Ambient relative humidity.
- Daily detail of licenced contractors on-site.

SURFACE PREPARATION:

Refer: [Fibreclene Specification](#)

WALL INTERNAL JUNCTIONS:

Refer: [Fibreclene Specification](#)

CLEANING & MAINTENANCE:

Cleaning:

Conventional cleaning procedures are normally adequate to maintain clean and hygienic surface.

Refer: [Cleaning Maintenance Document](#)

Repairs:

- Chemically clean.
- Mechanically abrade surface.
- Solvent wipe with Styrene Monomer
- Apply Fibreclene as per "Installation instructions".

FIXING OF PLANT AND MACHINERY:

Mechanical fixings into the substrate must be resin fixed. This is to ensure that there is no water migration into the substrate.

Conventional expanding plugs, screws or anchors are not an acceptable fixing method.

HEALTH & SAFETY: Refer: [safety data sheets \(SDS\)](#).

- Applicators are to comply with all current legislation when using this product.

Date: Sept 2021

Replaces: Sept 2020

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

www.allnexconstruction.com



DISCLAIMER: This information appearing in this Document (**Details**) concerning the product which is the subject of the Document (**Product**) is either based on present technical knowledge and tests done by allnex or tests done by, and data supplied from third parties including you, the customer. Since the actual use by you and by others of the Product is beyond the control of allnex, no warranty or representation, express or implied is made by allnex regarding the suitability for such use, nor does allnex accept any liability arising out of the use by you of other products or materials, whether third party or not, that may be referred to in this Document. allnex recommends that you carry out your own tests as to the suitability of the Product for your purpose, regarding which you accept full responsibility. In addition, if any of the Details appearing in the Document are based upon tests done by, and/or data supplied by any third party, allnex provides no warranties or representations in connection with those Details and you, the customer waives any right you may have against allnex in connection with the accuracy, completeness or otherwise of the Details. The information in this Document is not to be construed as absolutely complete or accurate since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations affecting use of the Product. allnex does not provide any warranty or representation to you that the Product does not infringe the intellectual property rights of any third party. All orders accepted shall be subject to the standard conditions of sale of allnex which are on the back of our invoice. In accepting the Product, you, the customer acknowledge and agree: **a.)** The Product is or may be of a hazardous nature and that you, the customer, are responsible for the disposal of the container housing the Product in accordance with the requirements and regulations of the relevant supervising government. **b.)** The Product has a limited shelf life and must be stored strictly in accordance with the guidelines and specifications related to it. **c.)** Where the Details relate to Product tested by allnex, those Details are indicative only, regarding which there may be batch to batch variation. **d.)** allnex gives no warranty or representation as to the applicability for the particular use by you, the customer, of the Product and you the customer shall be responsible for ensuring that the Product is fit for your intended use. **e.)** allnex's liability for breach of any term, condition, guarantee or warranty (express or implied and concerning the information in this Document or the Product more generally) including any liability for direct or indirect consequential loss (including indirect loss of profits), is limited to the maximum extent permitted by law and, at allnex's election, to either replacing or repairing the goods or paying the cost of replacing or repairing the goods, or in the case of services, supplying the services again.