



**GENERAL DESCRIPTION**

STORMCLAD is a flat, solid PVC sheet. Specifically designed and manufactured for use in Hygiene environments, STORMCLAD also offers excellent resistance to chemicals and is suitable for use in food industry applications. It can be easily formed, fabricated and used for digital or traditional printing.

STORMCLAD is suitable for use in a range of internal environments which require easy-to-clean surfaces. It is hard-wearing and colour-stable, has good impact resistance, excellent chemical resistance and exceptional fire performance.

Effective for internal cladding in kitchens, food storage, preparation and processing areas, clean rooms.

**USES**

**Versatile**

Cost effective for internal cladding in kitchens, food storage, preparation and processing areas, clean rooms.

Sheet thicknesses	Ranging from 1.0 – 3.0mm
Sheet sizes	1220mm x 2440mm
	1220mm x 3050mm

**Surface Finish**

Satin. Sheets are supplied with a protective film on the surface which should be removed after installation.

**Surface Gravity**

1.38 to 1.42

**Thermal Conductivity**

0.15 W/mK @ 1mm

**Coefficient of Liniar Thermal Expansion**

6.7x10<sup>-5</sup>

**Vicat Softening Point**

65-68°C

**SERVICE TEMPERATURE**

STORMCLAD can be installed in a diversity of applications, with varying temperatures. The material’s mechanical performance is known to remain stable in prolonged service in temperatures ranging from 20 to +50°C.

Greater care should be taken when working with PVC sheets in lower temperatures. PVC is less resistant to impact at lower temperatures.

**CHEMICAL RESISTANCE**

Excellent resistance to most chemicals; good resistance to alcohols, glycols and most cleaning solutions. Contact with solvents should be avoided.



## CLEANING

Most domestic cleaners, except those of an abrasive nature, are suitable: a mild soapy solution is preferable.

## FIRE PERFORMANCE

When STORMCLAD was independently tested the following classifications were obtained:

UK: BS 476:Part 6  
BS 476:Part 7  
I-9.6  
I=2.8  
Class 1

STORMCLAD has Class O fire performance when attached to a non-combustible substrate. Copy test reports are available.

## MECHANICAL PROPERTIES

Falling dart impact strength (3mm sheet)	: 93-96J
Tensile strength at yield	: 50-55MPa
Elongated at yield	: 3%
Tensile strength at break	: 48-54MPa
Elongated at break	: 130-150%
Flexural strength	: 78-82MPa
Flexural modulus	: 2,600-2,800MPa
Modulus of elasticity	: 2,800-3,000MPa

## SITE PREPARATION

Surfaces should be clean, dry and free from any contaminants liable to impair adhesion. New build structures should be allowed to dry out for at least 6 weeks prior to the installation of STORMCLAD and application of STORMGRIP. The surface should have a moisture content on the surface and in the core of less than 14%. Very porous substrates may be sealed with a dilution of PVA. Ensure that the PVA is completely dried out (at least 8 hours) prior to installation of STORMCLAD and application of STORMGRIP. All materials should be allowed to acclimatise for at least 24 hours before bonding. The sheet, air temperature and substrate should all be close to the final operational temperature of the building prior to application to avoid stresses from expansion of the PVC Sheet.

## METHOD OF APPLICATION

Ensure that the surface is completely ready as the above before opening the adhesive and the STORMCLAD sheets are accessible, completely dust free and ready for installation.

STORMGRIP is supplied as a 6.5kg pack. The mix ratio 12:1 by weight. Normally, Part A is contained in a 5L bucket and Part B in a sealed packet. Once mixed the pot life is 10 minutes @ 20°C (longer at lower temperatures) and so the substrate application should be complete before mixing. Add all of Part B to the Part A and stir until a uniform colour is achieved ensuring that the sides are scraped down often during mixing. Mixed adhesive should be used within 30 minutes.

When mixed, apply adhesive to the entire sheet to achieve 100% even coverage using a 6mm notched trowel and apply the sheet immediately to the substrate smoothing outwards from the centre. Flat plastered walls can have a 4-5mm notched trowel. Ensure no trapped air remains behind the sheets. Apply pressure as necessary to hold the substrates in contact until curing has occurred. Allow 4-6 hours for full cure (longer if temperatures are below 15°C).

Leave to cure for at least 4 to 6 hours before removing the protective film.

## COVERAGE

For cladding walls with PVC sheeting, use 1 x 6.5kg tub per 1220mm x 2440mm sheet.

## FREQUENTLY ASKED QUESTIONS

### What is STORMclad?

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### What is STORMclad used for?

*STORMclad can be used in food and hygiene areas, clinics and hospitals, school, laboratories and commercial kitchens.*

### What is the best thing for STORMclad?

*The best use for STORMclad is hygiene wall cladding.*

### Why would end users use STORMclad instead of competitors?

*STORMclad is food and hygiene approved and is class 1/0 fire rating, competitively prices and readily available from ourselves and comes with a complete range of trims and adhesive.*

### Who are the type of customer that commonly use STORMclad? (which industries/sectors/job types)

*The types of consumers that most commonly use STORMclad are cladding installers, shop fitters, building contractors, decorators, plastics distributors and builder merchants.*

### Where is STORMclad most commonly installed?

*STORMclad is most commonly installed in commercial washrooms/kitchens, school, hospitals and public WC.*

### When should STORMclad be considered? When should it be installed?

*STORMclad should be considered for areas where wipe clean surfaces are needed and hygiene is of importance. It is easy to be installed while building work is going on.*

## IMPORTANT NOTICE

Data contained in this document is for information only and is believed to be reliable. Southgate Plastics Ltd cannot assume responsibility for results obtained by others over whose methods we have no control. It is the users responsibility to determine suitability of the product for an specific purpose and we are pleased to provide a sample upon request.

Before using this product ensure that you have been supplied with and have read carefully and understood then relevant Product Data Sheets information. The hazard label (complying with the latest CDG/CPL regulations) applied to the customer. Material Safety Data Sheets, Part A and Part B.