



IMPACTPRO® SATIN

Technical Resource Pack

Technical data - installation - cleaning - specification - system components

DOCUMENT	IMP-SA-TRP-001
REVISION	Rev A
ISSUE DATE	10 August 2026

PACK CONTENTS

Document	Reference
Technical Data Sheet	IMP-SA-TDS-001
Installation Guide	IMP-SA-IG-001
Cleaning & Maintenance Guide	IMP-SA-CM-001
Specifier & Project Guide	IMP-SA-SPG-001
System Components & Jointing Guide	IMP-SA-SCJ-001

Document purpose

This pack consolidates IMPACTPRO® Satin technical information for project submittals, installation, handover and maintenance. It is formatted for website download, tender submissions and O&M; documentation.



IMPACTPRO® SATIN

Hygienic Wall Cladding

Technical Data Sheet - 2.5mm coloured uPVC wall protection system

DOCUMENT	IMP-SA-TDS-001
REVISION	Rev A
ISSUE DATE	10 August 2026

PRODUCT DEFINITION & KEY PERFORMANCE

Product definition

IMPACTPRO® Satin is a solid 2.5mm coloured uPVC hygienic wall cladding sheet with a smooth satin finish. It provides durable, impervious wall protection for hygiene-critical and hard-wearing interiors and is designed to be cut, formed, bonded and heat welded as part of a coordinated IMPACTPRO® system.

Parameter	Value	Details
Material	uPVC	Solid rigid hygienic wall cladding sheet
Thickness	2.5mm	Nominal sheet thickness
Standard sheet sizes	2500 x 1220mm; 3050 x 1220mm	Current website supply sizes
Surface finish	Smooth satin colour finish	Protective film retained during installation
Maximum service temperature	60°C	Upper service temperature
Lower temperature limit	0°C	Lower service temperature
Food contact	Approved	Suitable for hygienic / food-related interiors
Chemical resistance	High	Designed for demanding commercial environments

Physical & mechanical properties

Property	Test method	Result	Unit
Specific gravity	DIN ISO 1183	1.45	g/cm ³
Water absorption to saturation at 23°C	MSZ EN ISO 62	0.20	%
Tensile strength	DIN EN ISO 527-1,2	>45	MPa
Elongation at yield	EN ISO 527	>45	%
Tensile strength at break	DIN EN ISO 527	>20	MPa
Unnotched impact strength	DIN EN ISO 178	No break	kJ/m ²
Notched impact strength	DIN EN ISO 179	No break	kJ/m ²
Shore D hardness	DIN EN ISO 868	68	-
Tensile modulus of elasticity	ISO 527-1,2	>2500	MPa

THERMAL, ELECTRICAL & FIRE PERFORMANCE

Property	Test method	Result	Unit
Vicat softening point VST/B/50	DIN EN ISO 306	70	°C
Coefficient of linear thermal expansion 23°C-100°C	DIN 53752	0.7	m/(m.K)
Thermal conductivity at 23°C	DIN 52612	0.2	W/mK
Surface resistivity	DIN 53482	10 ¹³	Ω
Dielectric strength	MSZ EN 60243-1	18	kV/mm
Food compliance - EU	EU 10/2011	Yes	-

Fire performance

Classification / standard	Result
BS EN 11925-2 / reaction to fire	B-s3,d0
BS 476 classification	Class 0 when fully adhered to a non-combustible surface

Colour & finish



The IMPACTPRO® Satin range is supplied in a commercial colour palette for healthcare, education, commercial kitchens, washrooms, food production and other hygienic interiors. Physical samples should be used for final colour selection.

DESIGN, INSTALLATION & MAINTENANCE CRITERIA

Substrate and environmental requirements

- Substrate to be flat, sound, clean, dry and free of contamination. Make good defects before cladding.
- Painted surfaces may be suitable subject to adhesion testing. Plastered surfaces must be dust-free.
- All substrates to be dried to a maximum of 16% WME before fixing.
- Minimum recommended installation-area temperature: 14°C.
- Store sheets flat in the installation room for approximately 24 hours before fitting.

Jointing, corners and complete-system details

- Bond sheets using IMPACTPUR® two-part polyurethane cladding adhesive.
- Use compatible divider, edge, transition and corner profiles where specified.
- Heat-welded joints may be used with compatible colour-matched weld rod.
- Internal and external corners may be thermoformed from the sheet or completed using compatible corner profiles.
- Allow approximately 3mm expansion clearance at inflexible supports including door frames, ceilings and skirting.
- Seal exposed edges and service penetrations with compatible hygienic silicone where required.

Cleaning and maintenance

- Routine cleaning: soft cloth with mild soap or detergent; cleaning solution not above 60°C.
- Avoid abrasive pads and aggressive solvents that could mark the satin surface.
- For stubborn contamination use a compatible alkaline cleaner with a soft cloth.
- Where pressure cleaning is permitted, maintain at least 600mm from the sheet surface.



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Installation Guide

Preparation - profiles - bonding - jointing - thermoforming - heat welding - handover

DOCUMENT	IMP-SA-IG-001
REVISION	Rev A
ISSUE DATE	10 August 2026

BEFORE INSTALLATION

Pre-installation checks

- Confirm colour, finish and production batch before cutting. Keep a continuous elevation visually consistent.
- Install sheets in the same orientation throughout each area.
- Store sheets flat and condition in the installation room for approximately 24 hours.
- Maintain a minimum recommended installation temperature of 14°C.
- Confirm substrates are flat, sound, clean, dry and free from dust, grease and contamination.
- Confirm substrate moisture is no greater than 16% WME before fixing.
- Plan datum lines, corners, openings, joint positions and profile locations before cutting.

Recommended tools

Setting / measuring	Cutting / finishing	Bonding / site
Laser level; spirit level; tape measure; chalk line	Jigsaw; hacksaw; knife; tenon saw; round / square files; hole cutter	Mixing paddle; 6mm notched trowel; rubber mallet; clean workbench

PROFILES AND EDGE DETAILS

IMPACTPRO® profile components



External Angle

External-angle finishing profile.



1-Part Joiner

Single-part divider / joiner profile.



2-Part Joiner

Two-part joiner / transition profile.



1-Part Capping

Single-part edge / capping profile.



2-Part Capping

Two-part edge / capping profile.



Internal Angle

Internal-angle finishing profile.



Small External Corner

Compact external-corner profile.



Small Internal Corner

Compact internal-corner profile.

Setting out

- Set profile positions before sheet cutting and adhesive application.
- Use unjointed profile lengths between angles or ends of runs wherever practicable.
- Keep trim use to the minimum required by the project detail for a clean hygienic finish.

SHEET PREPARATION AND BONDING

1. Mark and dry-fit

- Inspect each sheet before marking. Mark datum and cut lines on the protective-film side.
- Cut to size using suitable tooling and PPE.
- Peel protective film back approximately 50mm from edges where required for insertion into profiles.
- Dry-fit and confirm approximately 3mm expansion clearance at inflexible supports.

2. Adhesive application

- Use IMPACTPUR® two-part polyurethane cladding adhesive.
- Mix and apply in accordance with the adhesive Technical Data Sheet and Safety Data Sheets.
- Apply adhesive to the sheet back with a 6mm notched trowel, working outwards from the centre.

3. Fixing sequence

- Present the sheet carefully to the substrate and work from the centre outwards to achieve full contact.
- Check datum, joint gap and alignment before adhesive initial set.
- Remove adhesive contamination immediately in accordance with the adhesive instructions.

JOINTING, CORNERS AND EXPANSION

Heat-welded joints

- Allow approximately 1.5mm gap between sheets for compatible weld rod.
- Keep the joint and weld rod clean and free from contamination.
- Set welding temperature and speed to the equipment, ambient conditions and material. Complete a test weld before production work.
- Allow the weld to cool before trimming. Trim flush without cutting into the sheet face.

Thermoformed corners

- Internal and external corners may be formed from the sheet using a thermoformer for a continuous hygienic detail.
- External-to-external marking dimension: add approximately 6mm.
- Internal-to-internal marking dimension: subtract approximately 6mm.
- Internal-to-external / external-to-internal: use the measured substrate dimension.

Expansion

- Allow approximately 3mm at inflexible supports such as door frames, ceilings, skirting and other fixed abutments.
- Seal exposed local edges with compatible hygienic silicone where required.

HANDOVER, CLEANING AND QUALITY CHECKS

Completion checklist

- All joints straight, consistent and fully finished.
- All exposed edges, profiles and corners secure and sealed as detailed.
- Protective film removed only after installation is complete.
- No adhesive, silicone or weld residue on finished faces.
- Door frames, penetrations and service interfaces sealed to the project detail.
- Allow adhesive and sealant to cure before final cleaning.

Initial and routine cleaning

- Use a soft cloth with a mild soap or detergent for routine cleaning.
- Cleaning solution should not exceed 60°C.
- For stubborn stains use a compatible alkaline cleaner with a soft cloth.
- Do not use abrasive pads or aggressive cleaners that could affect the satin finish.
- Where pressure cleaning is permitted, keep the nozzle at least 600mm from the sheet surface.



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Cleaning & Maintenance Guide

Routine care for smooth satin hygienic wall cladding

DOCUMENT	IMP-SA-CM-001
REVISION	Rev A
ISSUE DATE	10 August 2026

CLEANING PROCEDURE

Initial clean after installation

- Allow adhesive and sealant to cure before cleaning.
- Remove protective film only when installation work is complete.
- Remove installation dust and light contamination with a soft non-abrasive cloth.

Routine cleaning

- Use a soft cloth with mild soap or detergent.
- Cleaning water or solution should not exceed 60°C.
- Increase cleaning frequency to suit traffic, contamination risk and site hygiene procedures.

Stubborn contamination

- Use a compatible alkaline cleaner with a soft cloth.
- Do not use abrasive pads, wire wool or aggressive mechanical scouring.
- Avoid unverified solvents or abrasive products that may alter the satin appearance.
- Where hot-water pressure cleaning is approved, maintain at least 600mm between nozzle and sheet surface.

DO	DO NOT
Use soft non-abrasive cloths and compatible detergents.	Use abrasive pads, wire wool or aggressive scouring.
Clean spills promptly.	Allow staining contamination to remain on the surface.
Follow site-specific hygiene procedures.	Direct high-pressure cleaning close to joints, profiles or edges.
Use clean water for final rinsing where appropriate.	Use cleaners above 60°C without technical confirmation.



IMPACTPRO® SATIN

Specifier & Project Guide

Concise construction information for architects, contractors and project teams

DOCUMENT	IMP-SA-SPG-001
REVISION	Rev A
ISSUE DATE	10 August 2026

PRODUCT SCHEDULE

Item	Project information
Product	IMPACTPRO® Satin coloured hygienic uPVC wall cladding
Nominal thickness	2.5mm
Standard sheet sizes	2500 x 1220mm and 3050 x 1220mm
Finish	Smooth satin colour finish
Jointing options	Heat-welded joints or profile-jointed system
Corners	Thermoformed sheet corners or compatible internal / external corner profiles
Adhesive	IMPACTPUR® two-part polyurethane cladding adhesive
Sealant	Compatible hygienic silicone as required by detail
Typical applications	Healthcare, dental, education, commercial kitchens, food production, washrooms, leisure and other hygienic interiors

Substrate and installation criteria

- Substrate: flat, sound, clean, dry and free of contamination; make good defects before cladding.
- Maximum substrate moisture: 16% WME before fixing.
- Minimum recommended installation-area temperature: 14°C.
- Condition sheets flat in the installation room for approximately 24 hours.
- Maintain approximately 3mm expansion clearance at inflexible supports.
- For heat welding, allow approximately 1.5mm sheet-to-sheet joint gap for compatible weld rod.
- Plan sheet orientation, colour sequence, datum lines, openings, profiles and corners before fixing.

COLOUR SELECTION & PROJECT HANDOVER

Colour selection

Select colours using current physical samples. Where several colours are used within one project, establish the colour schedule and elevation sequence before ordering and installation.

Recommended technical submittal

- Technical Data Sheet
- Installation Guide
- Cleaning & Maintenance Guide
- System Components & Jointing Guide
- Adhesive Technical Data Sheet and Safety Data Sheets
- Colour / finish samples
- Fire classification information required for the project

Quality requirements

- Use visually consistent batches within each continuous colour area.
- Maintain consistent sheet orientation and joint alignment.
- Complete corners, profiles, service penetrations and terminations to a clean sealed hygienic finish.
- Protect finished cladding from follow-on trades until handover.



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System Components & Jointing Guide

Profiles, transitions, corners and jointing options for a coordinated hygienic wall system

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PROFILE RANGE

IMPACTPRO® profile components



External Angle

External-angle finishing profile.



1-Part Joiner

Single-part divider / joiner profile.



2-Part Joiner

Two-part joiner / transition profile.



1-Part Capping

Single-part edge / capping profile.



2-Part Capping

Two-part edge / capping profile.



Internal Angle

Internal-angle finishing profile.



Small External Corner

Compact external-corner profile.



Small Internal Corner

Compact internal-corner profile.

Profile selection

- Select profiles to suit sheet thickness, corner type, joint type and termination condition.
- Plan profiles before cutting sheets so joint centres and termination lines remain consistent.
- White profiles may be used where specified; colour-matched components and weld rod may be selected to suit the project colour schedule.
- Use compatible hygienic silicone at wet or hygiene-critical interfaces where required.

REFERENCE DIMENSIONS AND JOINTING OPTIONS

Component	Reference data / use
1-part joiner	48.1mm wide x 7.2mm high.
1-part capping	30.0mm wide x 6.3mm high.
Joiner & transition top / base	Top: 20.3 x 4.7mm; base 50.0 x 5.0mm.
Capping top / transition base	Top: 14.1 x 4.9mm; base 22.6 x 5.0mm.
Internal corner - small	14.0 x 18.0mm.
Internal corner - large	35.5 x 56.1mm.
External corner	25.0 x 17.0mm.
Angle profiles	1in, 1.5in and 2in internal / external angle options.

Jointing methods

Method	Use	Key technical point
Heat welding	Sheet-to-sheet joint using compatible weld rod.	Allow approximately 1.5mm joint gap; weld and trim when cooled.
Profile joint	Mechanical trim / divider joint.	Set out plumb / level before bonding sheets.
Thermoformed corner	Formed internal / external corner without separate corner trim.	Heat-form on suitable equipment to accurate site dimensions.
Silicone / sealed edge	Exposed-edge or interface detailing.	Use compatible hygienic sealant and complete a clean continuous seal.

COMPLETE SYSTEM & TECHNICAL SUPPORT

Complete-system approach

IMPACTPRO® Satin is installed as a coordinated wall protection system comprising coloured sheet, profiles, adhesive, silicone and weld rod where specified.

Technical support

For substrate suitability, profile selection, thermoforming, heat welding, jointing details, colour scheduling or project-specific construction requirements, contact Impact Group UK before installation.

Contact	Details
Website	www.impactgroupuk.com
Email	sales@impactgroupuk.com
Telephone	0800 669 6306