



IMPACTPRO® GLOSS

Technical Resource Pack

Construction technical data • installation • cleaning • specification • system components

CONTENTS

Section	Document
1	Technical Data Sheet
2	Installation Guide
3	Cleaning & Maintenance Guide
4	Specifier & Project Guide
5	System Components & Jointing Guide



IMPACTPRO® GLOSS

Hygienic Wall Cladding

Technical Data Sheet - 2.5mm high-gloss PVCu wall protection system

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PRODUCT	IMPACTPRO® Gloss Hygienic Wall Cladding

PRODUCT DEFINITION & KEY PERFORMANCE

Product definition

IMPACTPRO® Gloss is a 2.5mm hygienic PVCu wall cladding sheet with a high-gloss decorative surface for internal wall applications requiring a durable, impervious and easy-to-clean finish. The complete system is designed for installation with compatible IMPACTPRO® profiles, IMPACTPUR adhesive, hygienic silicone and, where specified, heat-welded joints or thermoformed corners.

Parameter	Value	Details
Material	Extruded semi-rigid PVCu	Hygienic wall cladding sheet
Thickness	2.5mm	Nominal sheet thickness
Standard sheet sizes	2438 / 2744 / 3048 x 1220mm	Availability varies by colour
Surface finish	High gloss	Protective film retained during installation
Weight	3.5 kg/m ²	Nominal sheet weight
Maximum service temperature	60°C	Upper continuous service temperature
Colour range	Refer to IMPACTPRO® Gloss colour/sample card	Refer to current range availability

Physical & mechanical properties

Property	Test method	Result	Unit
Density	ISO 1183	1.41	g/cm ³
Hardness (Shore D)	ISO 868	77	-
Notched impact resistance	ISO 179/1ea	6.1	kJ/m ²
Impact resistance	ISO 179/1eU	No breakage	-
Flexural strength	ISO 178	81	MPa
Tensile strength	ISO 527	56	MPa
E-modulus of elasticity	ISO 527	3050	MPa
Compressive strength	DIN 53421	70	N/mm ²

THERMAL, FIRE, WATER-VAPOUR & COMPLIANCE DATA

Property	Test method	Result	Unit
Vicat softening point VST/B	ISO 306	80	°C
Coefficient of linear thermal expansion	DIN 53752	0.08	mm/mK
Heat distortion temperature	ISO 75-2	60	°C
Water absorption	ISO 62	≤ 0.1	%
Thermal conductivity	EN 12524	0.17	W/mK
U value - bonded to 100mm block wall	DIN 52612	1.8	W/m²K
Moisture vapour transmission rate	ASTM E96	≤ 0.12	g/m²/24h
Water vapour resistivity	ASTM E96	3.82 x 10 ⁵	GN.s/kg.m

Fire performance

Classification / standard	Recorded result
EN 13501-1	B-s3, d0

Food-contact / hygiene

- Smooth, impervious surface intended for hygienic internal environments.
- Suitable for hygienic internal environments where cleanability and an impervious wall finish are required.
- High-gloss face should be protected from scratching during transport, fabrication and installation.

DESIGN, INSTALLATION & HANDOVER CRITERIA

Substrate and environmental requirements

- Substrate to be sound, flat, dry, clean and free from grease, dust and other contamination.
- Finished substrate should be straight to within approximately 3mm over a 2m straightedge unless the project specification requires tighter tolerances.
- Suitable substrates may include fair-faced brick/blockwork, plaster/render, WBP plywood, securely bonded ceramic tiles and sound painted surfaces subject to adhesion testing.
- Minimum recommended installation-area temperature: 14°C. Store sheets flat in the installation area for approximately 24 hours before fitting.
- Confirm moisture condition, porosity and any required primer or sealer before bonding.

Jointing, expansion and complete-system details

- Allow approximately 3mm expansion clearance at inflexible supports including door frames, ceilings and skirting details.
- For hot-welded joints, allow the specified welding gap and use compatible colour-matched weld rod; trial-weld before commencing production work.
- Internal and external corners may be completed using compatible PVC profiles or thermoformed sheet details where appropriate.
- Bond sheets using IMPACTPUR two-part PU cladding adhesive or another approved compatible system in accordance with the product TDS and SDS.
- Retain the protective film during installation and remove only once installation work is complete and the area is ready for final cleaning.

Cleaning and maintenance

- Routine cleaning: soft cloth with mild soap/detergent and warm water. Do not use abrasive pads or abrasive powders on the gloss face.
- Do not exceed 60°C cleaning-solution temperature.
- Test strong disinfectants, degreasers or specialist chemicals on an inconspicuous area before widespread use.
- Do not scrape the face with metal tools; remove cured adhesive or sealant using approved methods that will not mark the surface.



IMPACTPRO® GLOSS

Installation Guide

Preparation • substrates • bonding • jointing • thermoforming • handover

1. PRE-INSTALLATION PLANNING

Site readiness

- Confirm drawings, areas, elevations, colour schedule, sheet orientation, joint positions and corner details before cutting sheets.
- All wet trades should be complete and the work area weather-tight before cladding installation begins.
- Walls must be dry, sound and free of dust, grease, loose paint, laitance and contaminants that could reduce adhesion.
- Protect finished floors, sanitaryware, stainless steel and adjacent finishes before setting out a cutting or adhesive station.
- Plan sheet joints to minimise narrow infill pieces and unnecessary trim lines while maintaining required movement allowances.

Storage and conditioning

- Store sheets flat, fully supported and protected from damage or direct heat.
- Condition sheets in the installation environment for approximately 24 hours before fitting.
- Recommended minimum installation-area temperature: 14°C.
- Keep protective film on the gloss face until final clean and handover.



IMPACTPRO® Gloss colour range



Hygienic silicone



IMPACTPUR adhesive

2. SUBSTRATE REQUIREMENTS

Substrate tolerance

- Finished wall to be flat and true, with approximately 3mm maximum deviation over a 2m straightedge.
- Fill hollows, repair damaged plaster and remove projecting nibs or irregularities before cladding.
- Any substrate movement, delamination or failure remains visible through and can affect the completed cladding system.

Typical substrates

Substrate	Preparation / verification
Fair-faced brick or blockwork	Joints flush; wall true, dry and free of dust
Plaster / render	Fully cured, sound and dust-free; confirm moisture condition
WBP plywood / boarded partitions	Rigidly fixed and suitable for the environment; joints/fixings flush
Ceramic tiles	Only where securely bonded; degrease and complete adhesion test
Painted walls	Paint must be sound and firmly bonded; key/test as required
Concrete	Remove laitance/contamination; confirm porosity and adhesive preparation

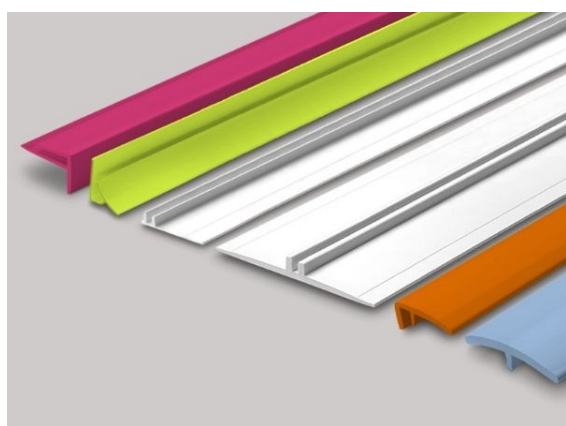
3. SETTING OUT, CUTTING & SHEET PREPARATION

Setting out

- Establish datum lines and verify floor/ceiling levels before measuring sheets.
- Position vertical joints away from vulnerable edges, door corners and service penetrations where practical.
- Allow approximately 3mm clearance around inflexible supports and penetrations unless the selected profile/system detail requires otherwise.
- Check sheet orientation and colour batch consistency before cutting.

Cutting and dry fitting

- Place sheet face-down on a clean, protected bench with the protective film intact.
- Cut using suitable fine-tooth saws/jigsaws or approved fabrication tools. Support the sheet fully to avoid chatter or edge damage.
- Deburr cut edges. Do not drag tools, offcuts or metal swarf across the high-gloss face.
- Dry-fit each sheet and associated trims before adhesive application. Confirm penetrations, joint gaps and corner geometry.



Typical PVC profile arrangement



Gloss colour/sample reference

4. ADHESIVE BONDING

IMPACTPUR two-part PU adhesive

- Use the IMPACTPUR Technical Data Sheet and both Part A and Part B Safety Data Sheets before mixing or applying adhesive.
- Mix the two components thoroughly using appropriate mechanical mixing equipment until a uniform consistency is achieved.
- Apply adhesive to the back of the prepared sheet using the specified notched trowel, ensuring even coverage and avoiding dry spots.
- Adhesive open/working time is temperature-dependent; follow the IMPACTPUR Technical Data Sheet for mixing, application and working-time requirements.
- Offer the sheet to the wall, locate into any base/joining profiles and press/roll systematically so the sheet is fully bedded without trapped voids.
- Remove fresh adhesive contamination immediately using a method approved for the gloss surface.



IMPACTPUR 2-part PU cladding adhesive



IMPACT hygienic silicone

5. JOINTS, PROFILES & CORNERS

Profile-jointed system

- Use compatible one-part or two-part PVC joining profiles, capping profiles, transition profiles and corner trims as detailed for the project.
- Ensure bases are straight, securely located and fully supported before inserting sheets or fitting cover sections.
- Seal exposed edges and wet-area terminations with compatible hygienic silicone where the system detail requires it.

Hot-welded system

- Provide the specified joint gap for welding and keep sheet edges and weld rod clean.
- Set welding temperature and speed by trial on offcuts before working on completed sheets.
- Allow the weld to cool before final trimming. Trim carefully to avoid marking the gloss surface.

Thermoformed corners

- IMPACTPRO® Gloss can be heat formed for smooth internal/external corner details where appropriate.
- Mark dimensions on the protective-film side and use a controlled thermoforming method to avoid overheating, distortion or gloss damage.
- Trial-form representative material where the radius/detail is critical.



External angle



Internal angle



1-part divider



2-part divider

6. OPENINGS, SERVICES & WET-AREA DETAILING

Penetrations

- Cut openings accurately and provide movement clearance around pipes, sockets, fixings and other inflexible penetrations.
- Seal penetrations in wet or hygiene-critical areas using compatible hygienic sealant and appropriate escutcheons/cover plates.
- Electrical equipment must only be moved or altered by appropriately qualified persons.

Wet-area interfaces

- Coordinate wall cladding with shower trays, floor coves, skirtings, stainless upstands and sanitary fittings before sheet installation.
- Do not rely on a bead of silicone to compensate for excessive gaps, poor substrate tolerance or incorrect setting out.
- At bath/shower zones, ensure water cannot track behind the sheet or profile system.



7. COMPLETION, CLEANING & QUALITY CONTROL

Final quality checks

- Check all sheet joints, corners, profiles, penetrations and sealant lines for continuity, alignment and cleanliness.
- Confirm sheets are fully bonded with no areas of movement, drumming or visible distortion.
- Remove protective film only after risk from other trades has passed and adhesive/sealant cure requirements have been met.
- Clean the face using a soft cloth and non-abrasive detergent. Do not use scouring pads on the high-gloss finish.
- Record snags and complete remedial work before client inspection.

Handover information

- Technical Data Sheet for IMPACTPRO® Gloss.
- Cleaning & Maintenance Guide.
- IMPACTPUR adhesive TDS and SDS Parts A/B.
- Colour/reference information and replacement-sheet details for future maintenance.

The quality and durability of the completed system depend on substrate condition, preparation, correct adhesive application, movement allowance, joint and corner detailing, and protection during following trades.



IMPACTPRO® GLOSS

Cleaning & Maintenance Guide

Routine care for high-gloss hygienic PVCu wall cladding

CLEANING & CARE

Initial clean after installation

- Allow adhesive and sealants to cure fully before wet cleaning.
- Remove protective film carefully. Do not use blades or metal scrapers against the gloss face.
- Remove dust using a clean soft cloth or non-abrasive wipe before applying cleaning solution.
- Wash with warm water and a mild neutral detergent, then rinse and dry with a soft lint-free cloth where a streak-free finish is required.

Routine cleaning

- Use soft cloths, microfibre or other non-abrasive cleaning media.
- Do not use abrasive powders, scouring pads, wire wool or aggressive mechanical scrubbers.
- For stubborn contamination, use a compatible alkaline or specialist cleaner only after confirming suitability on an inconspicuous area.
- Do not exceed 60°C cleaning-solution temperature.
- Where pressure cleaning is appropriate, keep the nozzle well clear of joints and use a minimum distance of approximately 600mm unless project guidance requires more.

Disinfection and chemicals

- Follow the disinfectant manufacturer's dilution and contact-time instructions.
- Test strongly coloured products, solvents, oxidising agents or concentrated cleaners before general use.
- Rinse residues that could dry on the gloss face and leave streaks or deposits.
- Do not mix cleaning chemicals.



IMPACTPRO® GLOSS

Specifier & Project Guide

Construction specification summary for 2.5mm high-gloss hygienic PVCu cladding

SPECIFICATION SUMMARY

Item	Recommended project description
Product	IMPACTPRO® Gloss hygienic wall cladding
Material	Extruded semi-rigid PVCu
Thickness	2.5mm
Width	1220mm
Sheet heights	2438mm / 2744mm / 3048mm - confirm colour availability
Finish	High gloss, smooth and impervious
Maximum service temperature	60°C
Fire classification	EN 13501-1: B-s3, d0
Joining	Compatible PVC profiles and/or heat-welded joints as specified
Corners	PVC corner profiles or thermoformed sheet details as specified
Adhesive	IMPACTPUR two-part PU cladding adhesive / approved compatible system
Sealant	Compatible hygienic silicone, colour matched where available

Recommended applications

- Healthcare and clinical interiors
- Bathrooms, showers and changing areas
- Dental and veterinary rooms
- Reception and front-of-house areas
- Commercial kitchens and serveries
- Education, leisure and other hygiene-critical commercial interiors

PROJECT COORDINATION & ACCEPTANCE CRITERIA**Before order / fabrication**

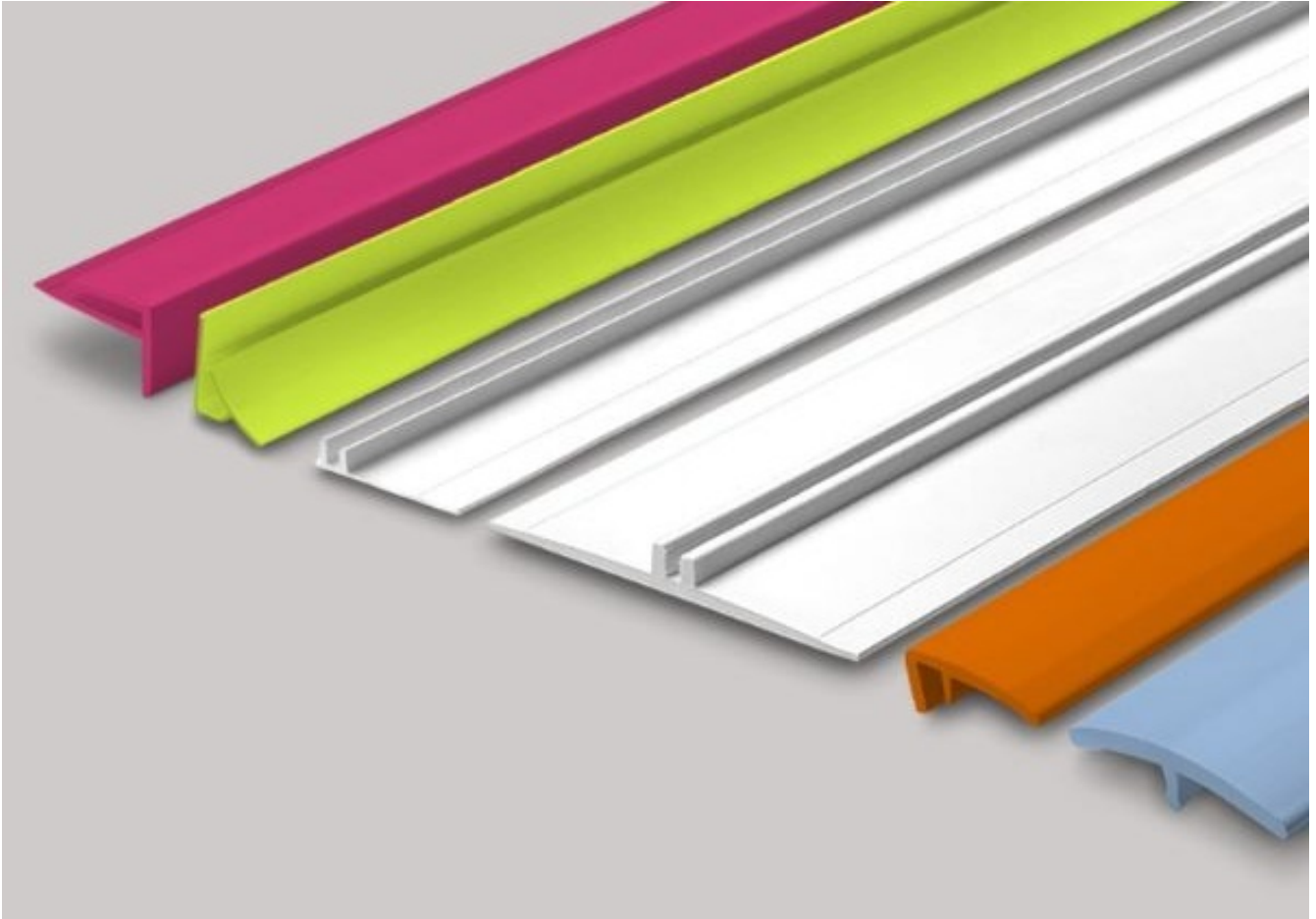
- Confirm colour, sheet height, quantity, batch strategy, jointing method, corner detail and all accessories before release.
- Coordinate with floor finishes, ceilings, doors, sanitaryware, fixtures, service penetrations and wall-protection items.
- Confirm substrate specification, moisture condition and tolerance. Cladding should not be used to conceal an unstable or unsuitable substrate.

Installation acceptance

- Sheets aligned with planned joint positions and free from visible damage or distortion.
- Profiles and welded joints straight, fully engaged/sealed and neatly terminated.
- Corners clean, consistent and free from stress whitening, buckling or open edges.
- Sealant lines continuous and tooled neatly; penetrations hygienically sealed.
- Surface clean, protective film removed and no adhesive, scratches or trade damage present.

Required handover documentation

- Technical Data Sheet
- Installation Guide
- Cleaning & Maintenance Guide
- Adhesive TDS and SDS
- Product/colour reference for future maintenance



IMPACTPRO® GLOSS

System Components & Jointing Guide

Profiles • joints • corners • adhesive • sealant • weld rod

PVC PROFILE RANGE - REFERENCE IMAGES



External angle



Internal angle



Small external corner



Small internal corner



1-part divider / joiner



2-part divider / joiner



1-part edge / capping



2-part edge / capping

Select the profile type, colour and one-part/two-part configuration to suit the approved project detail before fabrication.

JOINTING & CORNER OPTIONS

Detail	Use / design intent
1-part joint / divider	Simple trim-jointed vertical sheet connection where specified
2-part joint / divider	Base-and-cover profile allowing controlled sheet location and clean finish
Edge / capping profile	Termination to exposed sheet edge, ceiling or transition detail
Internal corner profile	Hygienic internal corner where thermoforming is not used
External corner profile	Protective external corner detail where thermoforming is not used
Hot-welded joint	Near-seamless hygienic joint using compatible weld rod and controlled welding technique
Thermoformed corner	Smooth formed internal/external corner from the sheet where project geometry permits

Design principles

- Profile/joint layout should be coordinated before sheets are cut.
- Maintain required expansion clearances and do not trap sheets rigidly between inflexible supports.
- Wet-area terminations must be designed so water cannot track behind the cladding system.
- Where colour-matched profiles are not available or are not selected, agree a deliberate contrasting or neutral trim strategy before order.

ADHESIVE, SEALANT & COMPLETE-SYSTEM ACCESSORIES

Complete system

- IMPACTPUR two-part PU cladding adhesive for full sheet bonding where specified.
- IMPACT hygienic silicone for sealed terminations, penetrations and interface details as required.
- Compatible PVC profiles and colour-matched weld rod where selected.
- Protective film retained on the face during fabrication and installation.
- Use compatible IMPACTPRO® system accessories for the selected installation detail.



IMPACTPUR adhesive



IMPACT hygienic silicone