

ANTI BACTERIAL
TECHNOLOGY

HYGIENIC PVC WALL AND CEILING CLADDING

Unique construction materials are a means of satisfying the ever increasing regulatory requirements placed on hygiene standards in food processing areas, hospitals, medical facilities, commercial kitchens, abattoirs etc. Setting the standards a new PVC sheet option Marvec FS Bio has been thoroughly researched and developed to inhibit the spread of bacteria. Marvec FS Bio contains a silver glass matrix which provides dual biostatic and biocidal action, stopping bacterial growth and killing bacteria on the sheet. As the matrix is spread out evenly throughout the sheet its effectiveness is retained, even if the surface becomes worn or abraded. Marvec FS Bio is suitable for use in hygienically demanding applications which require its antimicrobial action. It can be easily cleaned with typical non abrasive cleaning products.



marvecfs bio

OPTIONS

Colour	White	
Finish	Satin/Gloss	Matt/Gloss
Thickness	0.9 - 3.0 mm	
Sheet sizes	2440mm x 1220mm 2750mm x 1220mm 3050mm x 1220mm	

MAIN BENEFITS

- Safe active, anti-microbial function
- Long lasting effect of the antimicrobial agent
- Retains the anti-microbial properties even in fabrication
- Resistance to a wide range of chemicals
- Impact Resistant
- Tested to ISO 22196 (JIS Z 2801)
- Easily Bonded
- Lightweight
- Withstands frequent cleaning
- Excellent adhesion
- Easy to install and maintain
- Ideally suited for high medical care areas

APPLICATIONS

Medical

- Operating Theatres
- Hospitals and clinics
- Laboratories & clean rooms

Food

- Food production areas
- Commercial and restaurant kitchens
- Plating of food
- Abattoirs

Agriculture

- Livestock, poultry & dairy farms
- Egg sorting halls
- Storage chambers

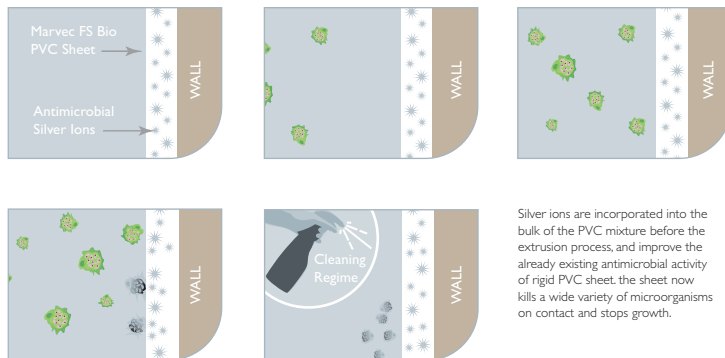


Plastic Sheets

ACTIVE ANTIMICROBIAL INGREDIENTS

Marvec FS Bio is ideal for high care zones which must be controlled from the spread of viruses and infections and to create the ultimate hygienic food preparation areas. The active antimicrobial protection kills microbes; it inhibits any growth and as a result leads to the added benefit of low maintenance requirements.

AN INNOVATIVE ANTIBACTERIAL TECHNOLOGY IN MARVEC FS BIO PVCu SHEET IS SETTING STANDARDS IN HYGIENIC CLADDING.



Silver ions are incorporated into the bulk of the PVC mixture before the extrusion process, and improve the already existing antimicrobial activity of rigid PVC sheet. The sheet now kills a wide variety of microorganisms on contact and stops growth.

PHYSICAL PROPERTIES

PROPERTIES	VALUE
Specific Gravity	1.38-1.42
Vicat softening point: DIN 53460	65-68°C
Thermal Conductivity: DIN 52612	0.15 W/mK@1mm
Thermal Expansion Coefficient: DIN 53752	0.067mm/m°C
Falling dart impact strength (3mm sheet)	93-96J
Shore Hardness: DIN 53505	60
Tensile strength at yield: DIN 53455	50-55 MPa
Elongation at yield: DIN 53455	3%
Tensile strength at break: DIN 53455	48-54MPa
Elongation at break: DIN 53455	130-150%
Flexural strength: DIN 53452	78-82MPa
Flexural modulus	2,600 -2800MPa
Modulus of elasticity: DIN 53457	2,800-3,000MPa

CHEMICAL RESISTANCE

Marvec FS Bio has excellent resistance to most chemicals including dilute acids and alkalis, alcohols, glycols, atmospheric pollutants and most cleaning solutions. Contact with solvents and wet wood preservatives should be avoided. It does not corrode or rot and is not attacked by pests.

SERVICE TEMPERATURE

The service temperature range of Marvec FS Bio is -20°C to +60°C. Greater care should be taken when working with PVC sheet at lower temperatures: PVC is less resistant to impact damage at lower temperatures. It should not be installed near heat sources such as cookers and heating boilers as these could cause distortion and damage.

CLEANING

Non abrasive domestic cleaning solutions are suitable for cleaning Marvec FS Bio.

INSTALLATION GUIDANCE

It is essential to maintain consistency of appearance when fitting Marvec FS. This is best achieved when:

- Ideally, on any project only sheets from the same production batch are used.
- Otherwise never mix sheets from different batches on the same wall.
- Use sheets in the same orientation throughout. As a guide the text on branded protective film should always be the same way up. Where the protective film is unprinted, the same end of every sheet on a pallet or bundle should be fitted at floor level.



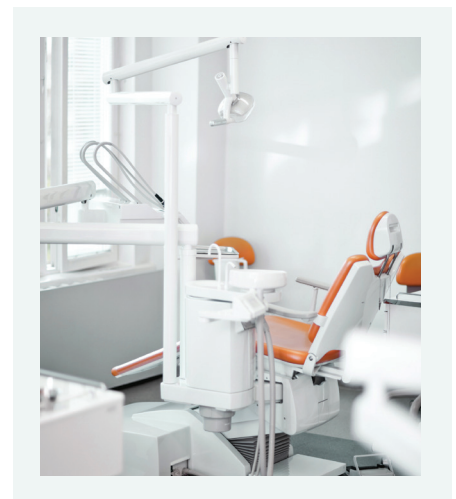
Plastic Sheets

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PRODUCT RANGE

PRODUCT	PRODUCT DESCRIPTION
Marvec CS Premium	Premium Corrugated PVC Sheet
Marvec CS Hi Impact	Hi Impact Corrugated PVC Sheet
Marvec CS Standard	Economical Corrugated PVC Sheet
Marvec CS Agri	Agricultural Lining Sheet
Marvec CSF	Corrugated Foam PVC Sheet
Marvec Roll	Bulk PVC Roll
Marvec FS	Flat PVC Sheet
Marvec FS Ultra	Gloss PVC Cladding
Marvec FS Bio	Hygienic PVC Cladding



FIRE PERFORMANCE

Marvec has excellent fire performance properties, please contact the Technical Department of Brett Martin for details.



REMEMBER

Marvec PVC sheet range is available in a choice of corrugated and flat options for use in a wide range of rooflights or cladding applications. Visit the website for further details.



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