



vogue
PORCELAIN
sheets

Technical

Endless design possibilities

A product that's as attractive as it is versatile, designed with the most ambitious projects in mind. Vogue Porcelain Sheets can be used freely in all kinds of applications, from the decoration of interiors to external wall cladding - all with stunning results guaranteed. With the large variety of surfaces available, you can explore the design possibilities opening up a world of creativity.



Sound technical features



Almost ZERO water absorption



Durable + Hygienic



Resistant to heat and cold



Withstands chemicals



Stain resistant



Fireproof

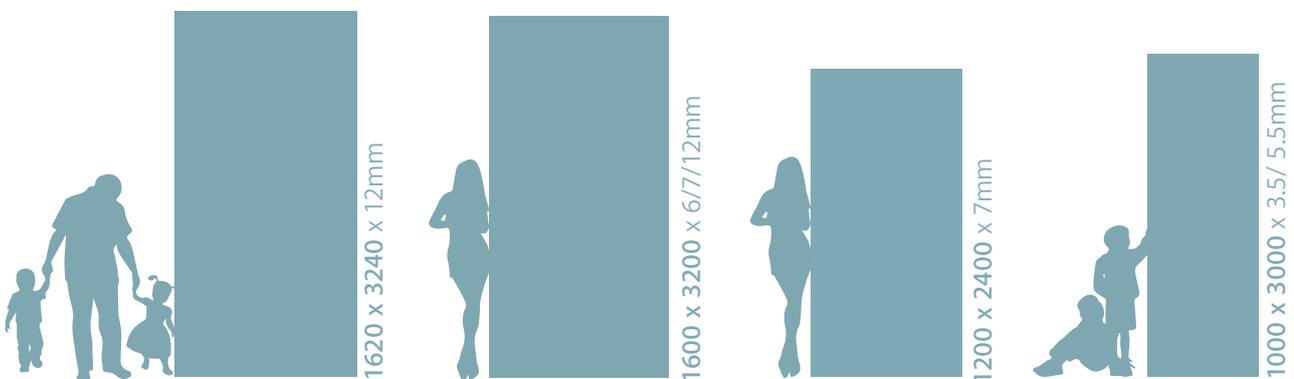


Easy to clean



Extraordinary size = Design flexibility

Extraordinary sizes



Nominal weight	6mm - 12.5m ²
3.5mm - 6m ²	7mm - 14.7m ²
5.5mm - 11.5m ²	12mm - 25m ²

Choose your thickness



VOGUE 3PLUS

Porcelain stoneware panels with a thickness of 3.5mm, reinforced with fibreglass mesh on rear side, in sizes up to 1000x3000mm. Must be bonded to a suitable substrate.



VOGUE 5PLUS

Porcelain stoneware panels with a thickness of 5.5mm, reinforced with fibreglass mesh on rear side, in sizes up to 1000x3000mm. Must be bonded to a suitable substrate.



VOGUE 6MM

Porcelain stoneware panels with a thickness of 6mm, in sizes up to 1600x3200mm. Must be bonded to a suitable substrate.



VOGUE DOUBLE-LAYER

'Double-Layer' panels in porcelain stoneware of 7mm thickness consisting of two panels of Vogue 3mm coupled and reinforced with a fibreglass mesh, in sizes up to 1600x3200mm.



VOGUE 12MM

Porcelain stoneware panels with a thickness of 12mm, in size 1620x3240mm. Must be bonded to a suitable substrate.

Microban antimicrobial technology: 3.5 + 5.5mm porcelain sheets

What is Microban®

Microban® International, Ltd. is a leading global company, specialised in enhancing high quality consumer, industrial and medical products with built-in active agents that combat microbial growth. Microban® International owns the Microban® global brand name which partner companies use under license.

The Microban® brand offers continuous and durable antimicrobial product protection, built-in during production so as not wear off during the product's lifecycle. Microban® International is headquartered in North Carolina with operations in North America, South America, Europe and Asia.

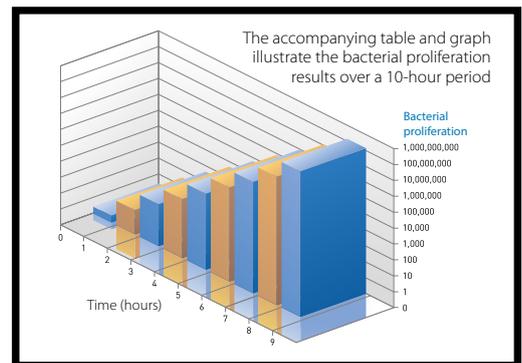
Worldwide, Microban® has licensed more than 200 companies, including brands such as Whirlpool, Rubbermaid, Johnson & Johnson, DuPont® and many others which have incorporated Microban® antimicrobial protection into more than 1,000 products, including kitchen and bathroom products, apparel and home textiles, appliances, building materials, food-service products, medical products and others.

Microban® Protection. Why ?

Bacteria and other micro-organisms are a fact of life. They are everywhere, all around us, all the time. However hard we try, there's no getting away from them. Some are beneficial and other neutral. However some are dangerous. So it makes sense to do what we can to prevent their potentially harmful and undesirable effects.

Under right conditions of warmth, a food source and humidity, bacteria can multiply extremely rapidly. Bacterial populations can double as quickly as every 20 minutes. In addition, bacteria can persist on inert surfaces for a long time.

On average, there may be more bacteria on your hand than people on Earth.

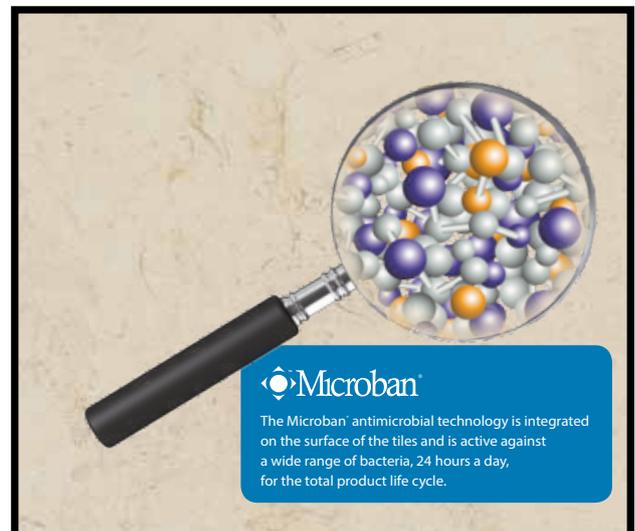


Advantages of Microban® technology

On the tile surface, the Microban® antimicrobial technology is effective in reducing bacterial growth up to 99.9%. Efficacy evaluation is carried out by independent laboratories using the International Standard ISO 22196.

The Microban antimicrobial® additive:

- Is permanently integrated in the tile surface during the firing process at 1200°C, lasting for the lifetime of the product. It is not a surface treatment applied after firing and does not need to be re-applied over time. This is due to the fact that the additive is a permanent part of the tile structure.
- Is uniformly applied in the surface, and it is therefore active also in difficult-to-reach flooring areas.
- Offers a continuous protection, 24 h a day, day and night, with and without sunlight, and it does not need UV lamp activation to display antimicrobial efficacy (unlike other technologies).
- Can to be applied to tiles of any colour. It does not whiten the tile surface where it is applied (unlike other technologies).



Compliance with safety norms

The antimicrobial silver based technology used in Panariagroup ceramic tiles has a long history of safe use and can be found in a wide range of consumer, industrial and healthcare products. The antimicrobial properties of silver have been known to cultures all around the world for many centuries.

The use and choice of Microban® antimicrobial technologies for Panariagroup laminated porcelain and porcelain tiles is in full compliance with global regulatory bodies which govern the use and applications on the market. In the United States, the Environmental Protection Agency (EPA) has regulatory jurisdiction and in the EU, the biocidal active components of Microban® antimicrobial additives are notified in accordance with the Biocidal Products Regulation (BPR) No 528/2012 for the relevant product types in accordance with their end use application.

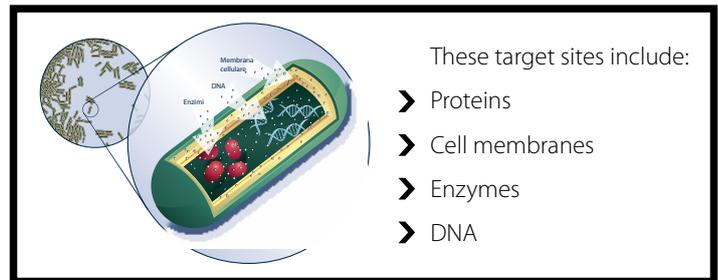
The Microban® additive used in Panariagroup ceramic tile products is also approved for use in direct food contact applications regulated under the Food Contact Materials Framework Regulation (EC) No. 1935/2004. It is also registered with the EPA (Environmental Protection Agency) and FDA (Food and Drug Administration) in the United States of America.

How Microban® technology works

Antimicrobial & Hygienic technology

Microban® provides round the clock protection against the growth of bacteria.

Microban® technology functions in numerous ways to inhibit bacterial growth. Protein and enzyme activity is blocked and the organism's DNA is damaged. The metal ions included in the Microban® additive are able to bind to many targets and stop important cellular functions.



Key proteins, for example are denatured and therefore prevent the bacteria from multiplying on the surface. With the removal of essential survival proteins, the bacteria will be unable to reproduce causing the death of the organism.

As Microban® antimicrobial technology is incorporated into the tile surface during the manufacturing process, it continuously fights the growth of bacteria for the lifetime of the product. Unlike surface disinfectants which only have a limited residual activity, Microban® protection works continuously eliminating bacteria and keeping the tiled surface more hygienic between cleanings.

Microban® antimicrobial additives have a biocidal action which kills bacteria that colonize and grow on the ceramic tile surface – this action is only on the tiled surface and; does not create a sterilized environment. Sterilization is defined as a process where 100% of living micro-organisms including bacterial spores are killed. For this to be maintained, however, the surface or product must be kept in a sterile environment.

Everyday the surface of the tiles is continually subject to bacterial contamination; the advantage of antimicrobial technology is that it continuously lowers bacterial count. As bacteria come into contact with the tiled surface containing Microban® technology, the elimination cycle commences. It is this ongoing cycle of elimination that supports hygiene measures and helps prevent cross-contamination.

With the Microban® brand you can be sure you are getting continuous, durable and effective antimicrobial protection supported by the Microban® Certification Programme, a quality assurance programme individually tailored to each Microban® partner and product application. Microban® treated Lea tiles, for example, are tested on a regular basis using the International ISO 22196 standard in order to substantiate the biocidal claims.



Thoroughly tested applications

To substantiate the antimicrobial claims, 3.5mm and 5.5mm Vogue and Microban® use both the Microban® internal expert microbiology laboratory for testing as well as external independent laboratories which are highly specialized in carrying out the ISO 22196 test, such as IMSL in the UK and Artest in Italy.

Tested organisms include Staphylococcus aureus, Escherichia coli and Klebsiella pneumonia.

FABRICATION: Walls + floors

Installation tips for achieving the best results.

- 1. Handling Material** - Take care during transit. Place the lifting frame on the sheet in a central position, ensuring that the lower end of the crossbars touches the wall of the case. Thoroughly clean the tiles and ensure the suction cups are active and the red safety ring on the piston, is no longer visible. Carefully lift the sheet and support the crossbars of the frame on the ground. Adjust the safety hooks at the ends of the crossbars, being careful to not join the metal to the ceramic, then leave a slight clearance between the edge of the tile and the hook. Lift the sheet and hook the crossbar of the lifting frame to the hooks of the truck. Maximum of 120x2400 sheets we recommend 2 operators for lifting. Maximum of 1640x3200mm we recommended 4 operators for lifting and movement.
 - 2. Wall + Floor Preparation** - It is first necessary to ensure that the bottom of the floor or wall is properly stationed and free from cracks, clean, smooth and with a maximum flatness of 1 mm (verified with a 2 mt minimum straight-edge).
 - 3. Adhesives** - The fabricator or installer should use Kerabond Isolastic adhesive for substrates and mitres. Apply the adhesive using the double coating technique: with a trowel with 3x3 mm notches, apply the glue, always in the same direction, all over the back of the sheet, making sure it is well distributed in the corners. With a spatula with 10 mm tilted notches, spread the glue on the base on the upper surface by 5/10 cm at the dimensions of the sheet. **It is important for the glue on the base and on the back of the sheet to go in the same direction and to not cross.**
 - 4. Installation Process** - Lift the sheet from the stand using the handles of the lifting kits. Rest the crossbars of the frame on the ground and release the safety hooks. Lift the sheet and position it carefully on the previously spread glue. Once the sheet is laid, it will be possible to move it by just 4-5 cm, it will no longer be possible to lift it. With an anti-bounce trowel or an electric vibrator, beat the sheet from the centre outwards to ensure perfect sheet-base adherence and to allow any air that is still present to escape.
- We recommend using levelling spacers to be positioned at a distance of approximately 1 metre from each other in the vicinity of the edges. To perfect the positioning of the sheet, a special tool to move sheets is available. **We recommend keeping an escape of at least 2 mm.** Once the laying is finished, the floor will be ready to be walked on in 12-24 hours or more depending on the type of adhesive used.
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FABRICATION: Benchtops + Splashbacks

Installation tips for achieving the best results.

- 1. Handling Material** - Take care during transit. For benchtops with cutouts, lay benchtop against a solid substrate such as MDF or similar, ensuring that backing support is at least 2cm larger than the benchtop. Strap, clamp or tape both together, so handling will be easier and to avoid potential damage. Always carry panels edge on i.e. vertically, not horizontally.
- 2. Substrate** - When selecting a substrate for benchtops always use a rigid and continuous pvc substrate. Ensure that the substrate has no flex. Do not install Vogue Porcelain Sheets over timber support bench battens without a suitable substrate.
- 3. Silicones (Splashbacks only)** - The fabricator or installer should use Neutral Cure silicones for substrates and mitres. Apply silicone to substrate as per manufacturer's guidance. Always respect manufacturer's curing times for silicones before completing further works such as coring holes or working above the finished Vogue Porcelain Sheets installation. Cutouts should be completed before installation.
- 4. Overhangs** - Unsupported overhangs should be minimized. A flush finish to benchtops or maximum 5 mm. Overhang with angle support is recommended. If larger overhangs are required for island benches, use a suitable support substrate to minimise any potential damage to material due to heavy impact or flex. Substrate must be rigid.
- 5. Under-mounted Sinks** - If the sink is under-mounted, do not adhere sinks to underside of porcelain only. The sink or basin must be fully supported by the substrate. It is essential to avoid over tightening tap fittings. Ensure that Vogue Porcelain sits flush to the substrate edge and that porcelain and substrate both support the tap base and housing. A solution for fitting taps is to fix the tap base housing direct to the substrate, which means enlarging the hole so that the tap base can be recessed (ensure that silicon is used to prevent moisture ingress). Use silicon to adhere sink lip (aluminium or stainless element) to Vogue Porcelain Sheets (due to thermal movement of metal). Use megaeepoxy as secondary adhesive
- 6. Top-Mounted Sinks** - If the sink is top mounted ensure that Vogue Porcelain Sheet sits flush to edge of substrate. Vogue Porcelain Sheet to be completely adhered to the substrate. Substrate to support sink weight. Do not clip down, only if silicone approved.

7. Cut outs for sinks or cook tops - Cut outs should have rounded internal corners (min. 10mm radius) to prevent radial cracking. Specifically, items like shower niches, fireplaces etc. where the porcelain might be expected to return in from one or more faces with a mitred or butt joint. It is essential that the face panel is sectioned around this type of opening to avoid stress points in the product, where subsequent movement in the structure may cause a fracture. We recommend a minimum 80mm to any panel edge from cook-top or sink cut out. Minimum of 50mm to any edge of tap hole from panel edge or edge of sink.

8. Splashbacks - When adhering splashbacks, only to be wall spot fixed using silicone if approved.

FABRICATION: Cuts + special finishes

Straight cut.

1. Secure the cutting bar by means of the suction cups so that the engraving wheel corresponds to the cut to be made.
2. Start engraving first both ends to a length of about 2- 5 cm.
3. Complete the engraving of the sheet along its length, taking care to keep a constant cutting speed and pressure on the engraver.
4. Now move the sheet on the bench so as to make the incision line stick out by about 10-15 cm.
5. Proceed with the slit using the shears on both ends, then continuing with the parting along the incision line.
6. With a pad or diamond pads, remove the sharp edge of the tile.

Non-Straight cuts.

1. Mark the cut to be made with a pencil.
2. With a hose equipped with a diamond blade, cut the sheet along the line drawn.

Rectangular hole.

1. Mark the rectangular hole to be made with a pencil.
2. With a drill with a diamond tip of 6/7 mm and with the percussion function deactivated, begin engraving the sheet with an initial angle of about 75°.
3. Then proceed with the hole, pressing with constant pressure and slowly swinging the drill.
4. It is very important to keep both the tip and the sheet wet with water.
5. With a hose equipped with a diamond blade, now cut along the line drawn.

Circular hole.

1. With a diamond bur, start the hole by cutting the sheet at an angle of about 75°.
2. Slowly straighten the drill, continuing to swing it carefully, taking care to always keep both the bur and the sheet wet.

Marking of the sheet.

1. Using the appropriate accessory to be fitted onto the cutting bar, start marking the sheet.
2. Slowly proceed with constant speed along the entire edge of the sheet.
3. Finally, finish the sharp edges of the sheet with a pad or diamond pads.



South Australia

AMS Surfaces Mile End Showroom

333 South Road, Mile End, SA 5031
Telephone: +61 8 8352 1265

Architectural Showroom

100a Flinders Street, Adelaide, SA 5000
Telephone: +61 8 8232 7633
(By appointment only)

AMS Surfaces Port Lincoln Showroom

72 Mortlock Tce, Port Lincoln, SA 5606
Telephone: +61 8 8683 3288

AMS Surfaces + Adelaide Marble Head Office

122 South Terrace, Wingfield, SA 5013
Telephone: +61 8 8345 1842

enquiries@adelaidemarble.com.au

voguesplashbacks.com.au

amssurfaces.com.au

Northern Territory

AMS Surfaces Darwin Showroom

8/23 Tannadice Street, Winnellie, NT 0820
Telephone: +61 8 8947 3120

Victoria

AMS Surfaces - Commercial Division

Authentic Tiling Pty Ltd *(In partnership with)*

70 Slater Parade, Keilor East, VIC 3033
T. +61 3 9331 7158 M. 0430 351 021

Tiling, tile supply, benchtops.

authentictiling.com.au

