

MAXIMUM

Porcelain panels that are
good for your health

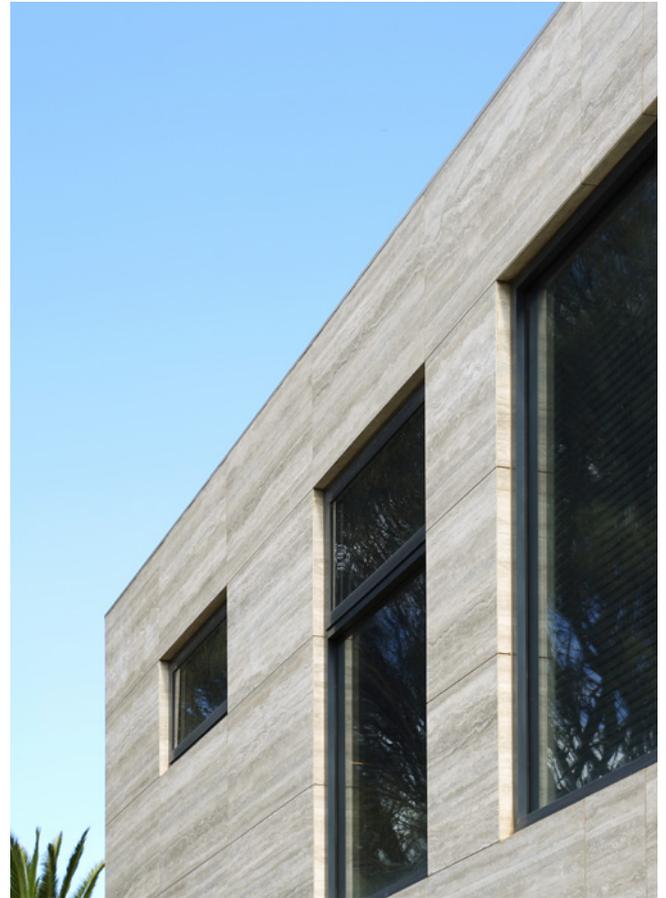
ACTIVE[™]
CLEAN AIR & ANTIBACTERIAL CERAMIC

Porcelain panels that are good for your health

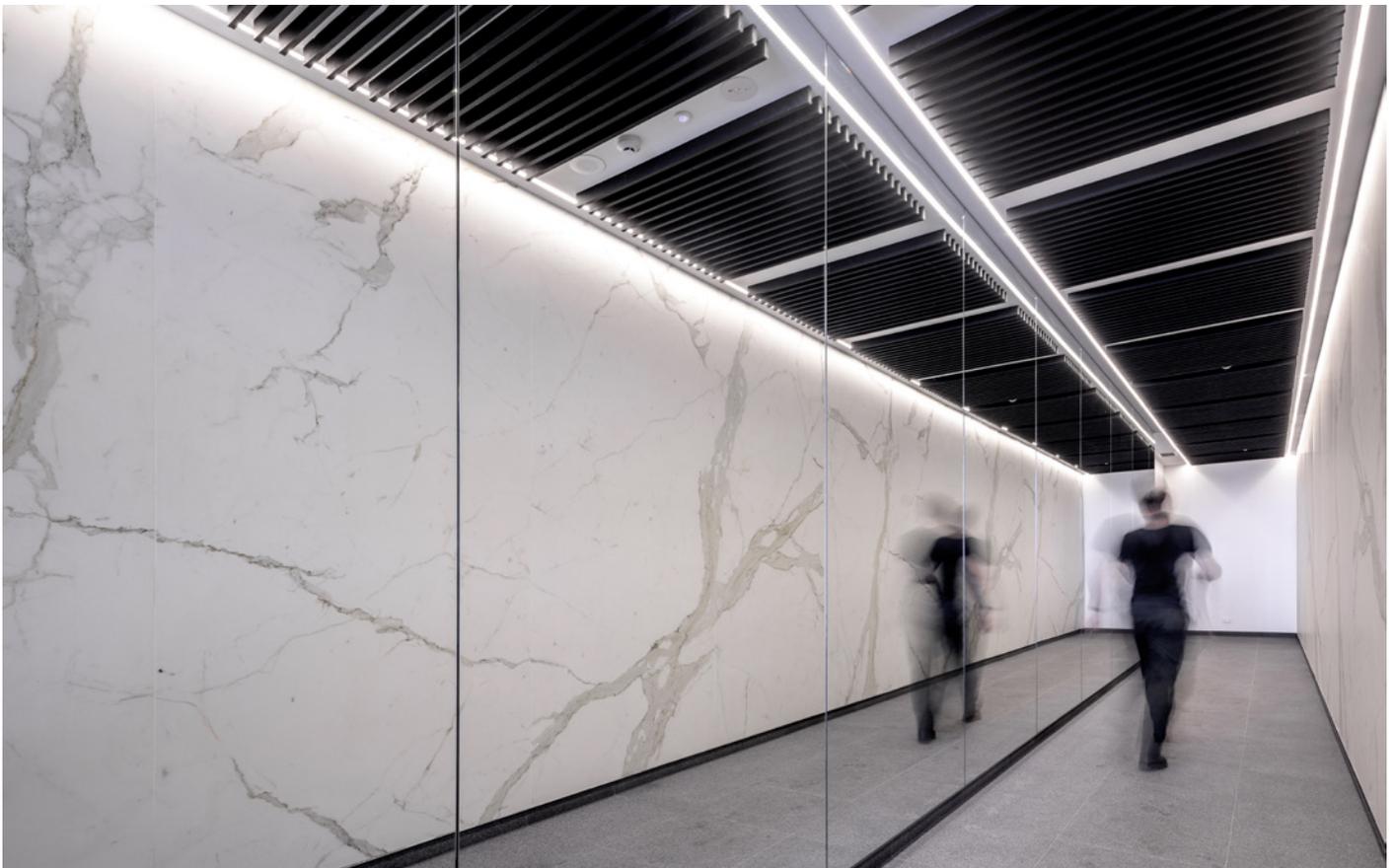
Buildings expose their occupants to chemicals that can have serious health impacts. Airconditioning systems draw in dangerous pollutants like nitric oxide and nitric dioxide (NOx) with outside air, while furniture, paint, building materials and cleaning products release volatile organic compounds (VOCs). ACTIVE 2.0 is fused to MAXIMUM panels acting in a photocatalytic process actively removing these contaminants from the air. ACTIVE 2.0 decomposes NOx on contact. It destroys VOCs, including benzene and formaldehyde. It even kills bacteria and viruses, including COVID-19. And because the panels are made from 100% natural materials, with none of the toxic resins or chemical binders used in engineered stone, they make buildings healthier during construction too.

Self cleaning. Less detergent, less often

ACTIVE 2.0 destroys volatile organic compounds (VOCs) on contact. And because it's hydrophilic, or "water loving", water flows across it without beading into droplets. As a result, when it's applied to MAXIMUM porcelain panels, they essentially become self cleaning, and require much smaller amounts of mild detergent and less frequent maintenance compared to other surface materials. This saves time and money, but it also makes buildings healthier. Detergents are a major source of indoor VOCs, and typically, the more aggressive the detergent, the more VOCs are released into the air. So ACTIVE 2.0 not only destroys VOCs, it reduces the degree to which they are introduced in the first place.



External Cladding
Travertino
Bay House by Tim Roberts Design



Lobby Walls
Calacatta
Campbell Parade Apartments by Tzannes Architects



External facade, floors and columns
Fiandre Core Shade Active in Cloudy and Sharp
De Castillia 23 by Progetto CMR



Bathroom Floors and Walls
Statuario
Two Wall House by Woods Bagot

Kills MRSA. Under UV, under LED, in the dark

Unlike the many surface materials that call themselves “antibacterial” but simply stop the spread of bacteria, MAXIMUM’s ACTIVE 2.0 photocatalytic process kills bacteria, including E. Coli and MRSA. And unlike any comparable building material, it does it in all common indoor lighting conditions – in sunlight, under UV light, under LED light, and even in complete darkness. For ISO 22196 compliance, bacteria placed on ACTIVE 2.0 was left in the dark for eight hours. In this time, E. Coli levels were reduced by 99.99% and MRSA levels were reduced by 99.61%. When specified into a building, this mitigates the risk of infection and reduces the need for intensive antibacterial detergents.

Destroys the VOCs that cause indoor odours

The majority of odours are airborne volatile organic compounds (VOCs). MAXIMUM ACTIVE 2.0 destroys VOCs on impact, directly removing those odours from the air. This has beneficial applications in all areas of a building – from bathrooms and toilets, to kitchens, to labs and hospital wards, to waiting areas and corridors – and it has benefits beyond simply making these indoor spaces more pleasant. The reduction in odours minimises the need for air fresheners and other scented deodourising products, saving time and money. And because those scented products also contribute to indoor VOC levels, it reduces the amount of airborne contaminants introduced into the building.

Antiviral properties of Active 2.0

Active 2.0 is the only product on the market certified as antiviral. Titanium dioxide in micrometric form is fused to porcelain surfaces at high temperature and pressure, forming a fine skin that can kill different types of viruses including COVID-19. Producing antiviral surfaces requires a fine level of precision because virus particles are smaller than bacteria. As such, inferior products on the market have only antibacterial properties.

ACTIVE 2.0 test results showed the ability of ACTIVE 2.0 to eliminate 94% of SARS-CoV-2 (responsible for COVID-19) after only 4 hours of exposure to low intensity UV light (natural light and traditional light bulbs even at low intensity). This significant result follows the ISO Certificates (ISO 21702 – ISO 18061) already obtained in respect of four well-known viral strains: the H1N1 and H3N2 Pandemic Influenzas, Enterovirus 71 and the Poliovirus. As well as ISO Certifications in the antibacterial field including antibiotic-resistant bacteria (ISO 27447 – ISO 22196).

These properties make Active 2.0 an ideal choice for internal, external, floor and wall usage in a variety of commercial projects. Active 2.0 is of particular benefit in hospitals and medical centres, where it reduces cross contamination, and the antiviral, self-cleaning, anti-odour and antipollution action improves indoor air quality. Active 2.0 provides a non-toxic, easy-to-maintain surface for interiors of offices, hotels and residential buildings, and meets the demand for sustainability and wellbeing in the

sector. Its 100-per-cent natural composition is free of toxic resins and chemical binders used in engineered stone, and its aesthetic beauty mimics natural stone, marble, concrete and more.

Certifications for tests are available on request.

ACTIVE 2.0 is offered in a standard range of MAXIMUM panels with no minimum order.



Internal Floors

Calacatta

St Vincent's Hospital, Sydney by Hassell

Cover image
External Facade
Calacatta
Franklin Road House by Jack McKinney