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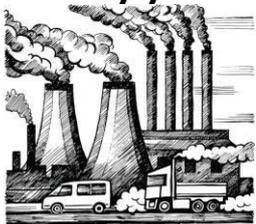
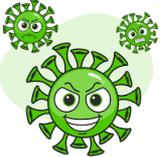
ACTIVE SURFACES for the Cybernet Headquarter, Tokyo

Porcelain stoneware slabs have always been synonymous with strength, ease of maintenance, durability, but also resistance to atmospheric agents, to fire without releasing toxic substances and also to breakage due to thermal changes.

From a technological point of view, Active Surfaces™ is an application on the surface of porcelain stoneware, based on micro-sized photocatalytic titanium dioxide doped with silver (patented), which transforms conventional, traditionally inert ceramics, into a material not only eco-sustainable, but with new properties technically and scientifically validated: improvement of air quality, purification of contaminants and odours, cleaning easily thanks to the self-cleaning feature. Silver leads to the improvement of all the photocatalytic properties of Active surfaces under any lighting conditions, even LED lamps.

Furthermore, the surfaces with Active application are certified antiviral and antibacterial, even in the dark, both with common strains and with those particularly dangerous for our health, such as the antibiotic-resistant bacteria (MRSA). Living in environments that offer optimal levels of hygiene means not only guaranteeing greater efficiency and productivity, but also and above all limiting health risks. An environment that is only apparently clean can hide dangers to the health of hosts and workers and for this reason, Active ceramics are an efficient solution to keep surfaces always sanitized, without the use of aggressive and toxic detergents.

We have completed a set of laboratory tests aimed at evaluating the photodegradation of pollutants in the air (model pollutant NOx as requested by WHO), selected VOCs, including odours and the antiviral/antibacterial activities, simulating 8 hours under LED light, with the same series of Active surfaces installed in the Cybernet Headquarter in Tokyo: **190 sq.m. Urban Active White 600x600 mm; 250 sq.m. Urban Active Grey 600x600 mm**. Here the main outcomes of the study:

	NOx removed every year 	Air purified from VOC and odors 	Bacterial reduction 	Antiviral efficiency 
	0,6 kg, equivalent to ca. 400 sqm of greenery	More than 5000 m ³ of cleaned air every day	99.99%	99.99%

Milano, February 1st, 2021

Prof. Claudia L. Bianchi