



BUZZI & BUZZI

# AIRCORAL®

designplan®

**IT PURIFIES THE AIR FOR AN  
IMPROVED QUALITY OF LIFE**

The most advanced chemistry has produced **AirCoral®** which has the power to transform harmful substances into harmless ones through a process which is very similar to chlorophyll photosynthesis.

Tested by TCNA: Tile Council of North America







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AIRCORAL®

Every product made with **AirCoral®** is accompanied by a "PRODUCT TESTING SERVICE" certificate provided by the Tile Council of North America.

Every product made with **AirCoral®** is identified by a marking with a special aluminum plate.

designplan®



PRODUCT TESTING SERVICE

100 Clemson Research Blvd. Anderson, SC 29625 Tel (864) 646-TILE Fax (864) 646-2821

March 9, 2011

Buzzi & Buzzi  
Via Milano 17  
20060 Pozzo D'adda (MI)  
Italy

Dear Buzzi & Buzzi:

As per your request, Tile Council of North America is pleased to provide you with the following summary of test results from the testing services you contracted from our Product Performance Laboratory previously issued in test report number TCNA-362-10 on material you provided and designated "AIRCORAL."

- ❖ Test results generated from performing test method ISO 27447 (*Test method for antibacterial activity on semiconducting photocatalytic materials*) showed that in all of the samples tested, there was no survival of bacteria after eight hours in either UV-irradiated or dark test conditions. Ref.: Report number TCNA-36210, October 21, 2010
- ❖ Based on test results using test method UNI 11259 (*Determination of photocatalytic activity of hydraulic binders, Rhodamine B method*), the samples tested showed evidence of the ability to degrade organic pollutants. Ref.: Report number TCNA-362-10, November 18, 2010
- ❖ In closed chamber studies, n-hexane was degraded from an initial concentration by 17.4 ppm in the presence of a test sample versus only 7.6 ppm concentration decrease for a generic wall tile. Ref.: Report number TCNA-36210, January 18, 2011

If you have any further questions or require any further clarification on the test methodologies, please do not hesitate to contact us. It has been a pleasure to work with you on this project. On behalf of our staff, we thank you for the opportunity to provide these testing services to you.

Sincerely,

Jyothi Rangineri, PhD

Research Scientist

Testing Services: [testing@tileusa.com](mailto:testing@tileusa.com) Literature Orders: [literature@tileusa.com](mailto:literature@tileusa.com) Web Site: [www.tileusa.com](http://www.tileusa.com)  
This report is confidential and has been prepared for the exclusive use of the client. It is not an endorsement, approval, certification, or criticism of any product by TCNA. This report shall not be published in any form without prior written consent from TCNA.

## --- The anti-bacterial material that purifies the air ---

*AirCoral® is eco-active, anti-pollution and anti-bacterial and contributes effectively to an improved quality of life.*

The innovative product **AirCoral®** (patented and certified by the TCNA - the Tile Council of North America) as well as maintaining all the aesthetic and strength characteristics typical of **Coral®**, has the added benefit of a powerful antibacterial property against *Escherichia Coli*, *Klebsiella Pneumoniae* and *Staphylococcus aureus*, pathogenic agents of potentially serious disease, and the ability to degrade pollutants found in cities such as hexane (Hexano), a toxic gas that is formed due to the use of hydrocarbons for cars and heating.

The new **AirCoral®** material is an absolute novelty, as it helps to purify the air and make your surrounding environment cleaner, healthier and more hygienic while reducing the harmful effects of major pollutants. It also exerts its action even in the absence of light.

These features represent a steady development of **Coral®**, which has led to the material **AirCoral®** - a material that not only does not pollute, but also purifies the environment where it is installed and consequently improves the lives of its users.

**AirCoral®** is recommended for use in all public surroundings (hospitals, medical facilities, hotels, bars and restaurants) or in private areas where there is an overriding desire to create a healthy environment.



# PHOTOCATALYTIC

degradation ability to harmful agents. Tested with method UNI11259

# ANTIBACTERIAL

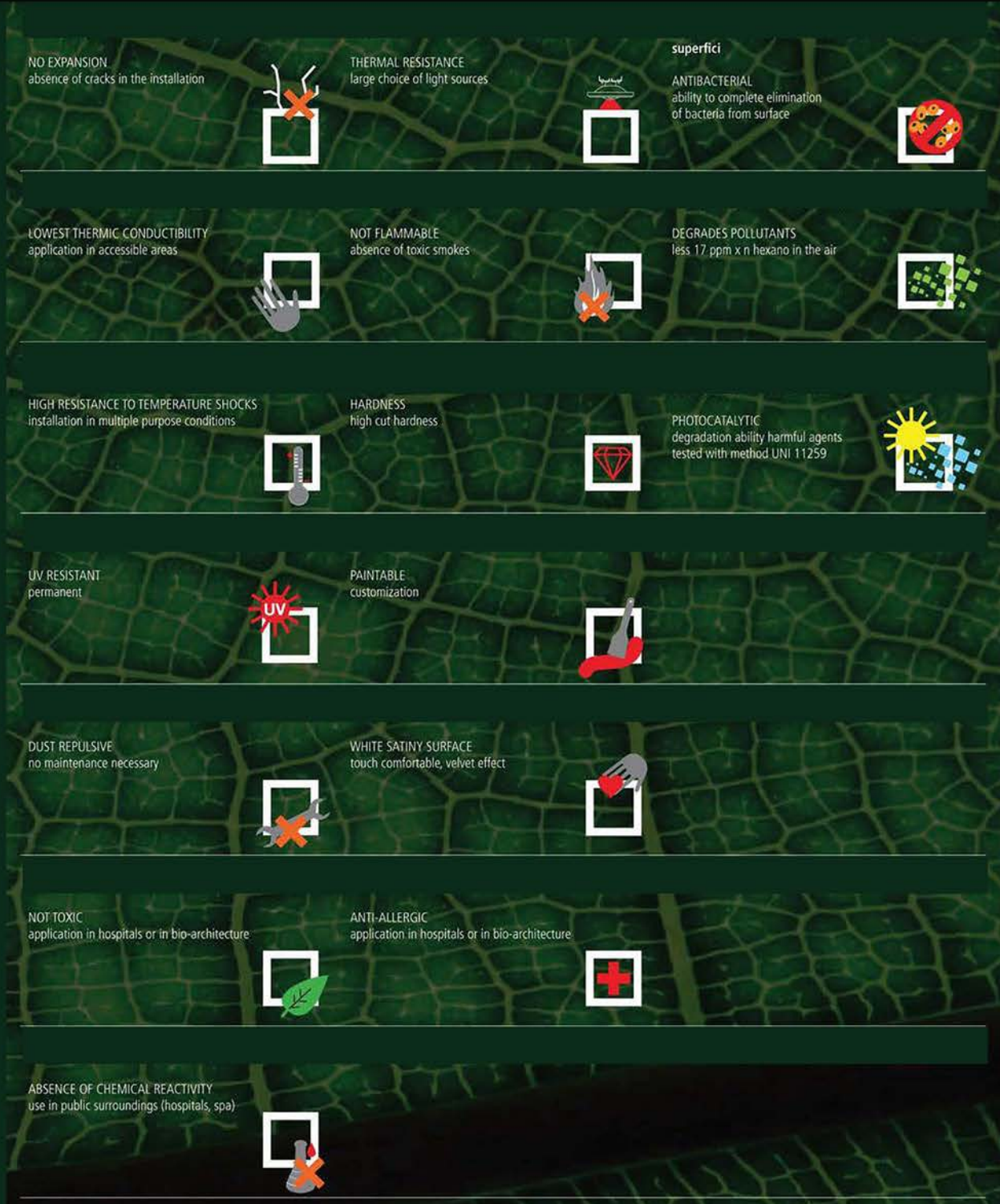
ability to complete elimination of bacteria from surface tested with method UNI 27447



















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# LESS POLLUTION

less 17 ppm x n hexano in the air



<p><b>NO EXPANSION</b> absence of cracks in the installation</p>		<p><b>THERMAL RESISTANCE</b> large choice of light sources</p>		<p><b>superfici</b> <b>ANTIBACTERIAL</b> ability to complete elimination of bacteria from surface</p>	
<p><b>LOWEST THERMIC CONDUCTIBILITY</b> application in accessible areas</p>		<p><b>NOT FLAMMABLE</b> absence of toxic smokes</p>		<p><b>DEGRADES POLLUTANTS</b> less 17 ppm x n hexano in the air</p>	
<p><b>HIGH RESISTANCE TO TEMPERATURE SHOCKS</b> installation in multiple purpose conditions</p>		<p><b>HARDNESS</b> high cut hardness</p>		<p><b>PHOTOCATALYTIC</b> degradation ability harmful agents tested with method UNI 11259</p>	
<p><b>UV RESISTANT</b> permanent</p>		<p><b>PAINTABLE</b> customization</p>			
<p><b>DUST REPULSIVE</b> no maintenance necessary</p>		<p><b>WHITE SATINY SURFACE</b> touch comfortable, velvet effect</p>			
<p><b>NOT TOXIC</b> application in hospitals or in bio-architecture</p>		<p><b>ANTI-ALLERGIC</b> application in hospitals or in bio-architecture</p>			
<p><b>ABSENCE OF CHEMICAL REACTIVITY</b> use in public surroundings (hospitals, spa)</p>					



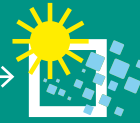
# AIRCORAL® POWER



## ANTIBACTERIAL

ability to complete elimination of bacteria from surface

**TO CREATE A HEALTHY ENVIRONMENT**  
AirCoral® is suggested for all those places, such as hospitals and medical structures, where there is an overriding desire to create a healthy environment.



## PHOTOCATALYTIC MATERIAL TO PURIFY THE AIR

**WELLNESS IN PRIVATE SPACES**  
Buzzi & Buzzi products in AirCoral® light up, purify and decorate the spaces of houses, and reduce the pollution in the spaces where we leave by removing the dangerous agents for the human health.



## DEGRADATION OF POLLUTANTS

**IN CROWDED PLACES**  
In closed and crowded places, such as working environments, there is often a double quantity of polluting agents than outside. AirCoral® products purify the air and grant a healthy context also in presence of a great number of people.



# THE LIGHT THAT PURIFIES THE AIR

The lighting material with a photo-catalytic effect that reproduces the green action in architectural spaces.

