



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

Dipartimento di Scienze e Tecnologie Alimentari
per una filiera agro-alimentare Sostenibile - DISTAS
Area di Tecnologie alimentari, enologia e ambiente

UNIVERSITA' CATTOLICA DEL S. CUORE
DIPARTIMENTO DISTAS
FACOLTA' DI SCIENZE AGRARIE, ALIMENTARI E AMBIENTALI

IRIS Ceramica Group
Via Ghiarola Nuova,119
41042 Fiorano Modenese (MO)

Piacenza, 18th February, 2020

TEST REPORT N° 7A/2020

Sample: CALACATTA SL. ACTIVE 2.0. 300x150 cm

TEST RESULTS

As requested by the Company IRIS Ceramica Group, the product **CALACATTA SL. ACTIVE 2.0. 300x150 cm** has been tested for resistance to fungal growth according to UNI EN 15457:2014. The sample specimens were prepared and provided by the company.

Evaluation of fungal resistance efficacy

The UNI EN 15457:2014 norm indicates the laboratory method for testing the efficacy of film preservatives in a wall coating against fungi.

Before testing, the sample specimens were sterilized in autoclave at 120°C for 20 min. The sterilised specimens were placed centrally (with the surface to be tested face up) onto Petri plates containing Malt Agar as culture media. The specimens were then



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inoculated with a mixed fungal spore suspension of *Aspergillus niger*, *Cladosporium cladosporoides*, *Alternaria alternata*, *Penicillium purpurogenum* (10^6 cell/mL).

The inoculated Petri plates were incubated at $24 \pm 2^\circ\text{C}$ for 21 days. At the end of the incubation time, fungal growth was assessed visually macroscopically.

The UNI EN 15457:2014 norm uses the following assessment scale.

Fungal growth scale	Percentage of the surface of the specimen covered by mycelium growth
0	0
1	≤ 10
2	10 - 30
3	30 - 50
4	50 - 100

The efficacy of the sample against fungal growth is demonstrated if the specimens are rated less than 4.

The obtained results are reported in the table below.

Mixed fungal spore suspension	Fungal growth assessment according to the UNI EN 15457:2014 norm		
	Sample	Result	Specified value for demonstrated efficacy against fungal growth
<i>Aspergillus niger</i> <i>Cladosporium cladosporoides</i> <i>Alternaria alternata</i> <i>Penicillium purpurogenum</i>	CALACATTA SL. ACTIVE 2.0. 300x150 cm	0	< 4



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The product **CALACATTA SL. ACTIVE 2.0. 300x150 cm** can be considered efficient against fungal growth since the mycelium growth onto the specimen surface was rated less than the specified value in the assessment scale proposed by the UNI EN 15457:2014 norm.

This test report contains results that refer only to the analysed sample and can only reproduced in full, without any change.

The analyst
(Dr. Roberta Galli)

Scientific Referent
(Prof. Giorgia Spigno)

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