



PHOTOCATALYTIC COATED ALUMINIUM FOR SANDWICH PANELS

Italcoat produces flat aluminium, **coated with antimicrobial and photocatalytic effect*** to be used in foamed panels for air ventilation ducting systems.

This innovative product **halts the growth of bacteria, mould and fungi.**

PRODUCT DESCRIPTION

Aluminium is **chemically degreased** and **pre-treated** to guarantee the perfect adhesion of coating. It is **lacquered on one side with a white varnish with antimicrobial and photocatalytic effect***;

The **other side is lacquered with a gold coating** (other colours on demand) suitable to guarantee adhesion of PUR and PIR foams.

***Patented**

Stratigraphy

-  **Antimicrobial and photocatalytic coating**
-  **Primer**
-  **Surface pretreatment**
-  **Aluminium**
-  **Surface pretreatment**
-  **Back Gold**



ALUMINIUM TECHNICAL SPECIFICATION

Typical Alloy: 3xxx - 8xxx

Width: max 1350mm

Temper: "0" - H24

Thickness: from 70µm

Surface aspect: flat

Available back colour: gold
- other colours upon request

White antimicrobial, photocatalytic and primer lacquer grammage: 7.5-8.5 g/m²

Back coating grammage: 3.5-4.5 g/m²



Test Environment

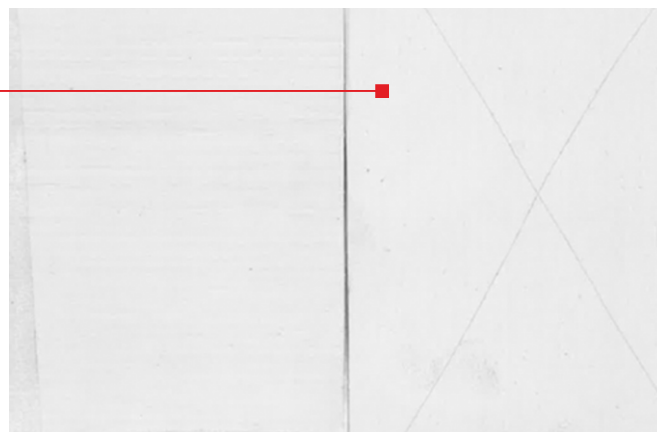
water solution with 5% of NaCl at 35°C.
pH: 6,5 - 7,2

Corrosion Resistance:

up to 1000 hours of exposition to neutral salt spray fog following ASTM B117 notm

Resistance to UV-Rays:

up to 1000 hours of exposition to QUVA 340nm - 0,89 W/m with gloss reduction



**Antimicrobial effect guaranteed also without UV rays:
against bacteria and mould / fungi**

ASTM G21-I3

against mould / fungi growth

List of mould / fungi tested:

Aspergillus niger ATCC 9642
Chaetomium globosum ATCC 16021
Penicillium funiculosum ATCC 9644
Paecilomyces variotii ATCC 16023
Gliocladium virens ATCC 10043



ISO 22196:2011

against bacteria growth

List of bacteria tested:

Escherichia coli
Staphylococcus aureus
Listeria monocytogenes
Salmonella thyphimurium
Legionella pneumophila



ASTM E2180

against bacteria / fungi growth

List of bacteria / fungi tested:

Staphylococcus aureus
Pseudomonas aeruginosa
Chaetomium globosum

