



法國生產



隆達科技有限公司
AMPLE WAY
Technology Limited

保康潔 Coversafe™ 自粘抗菌及抗病毒保護膜

COVERSAFE™ by Gergonne Industrie

ANTIMICROBIAL SURFACE PROTECTION

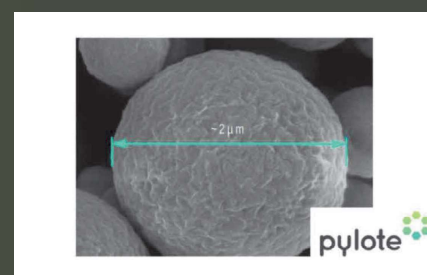
Self-adhesive virucidal and bactericidal film

表層抗菌解決方案

適用於金屬、塑膠、木材、石材、玻璃產品

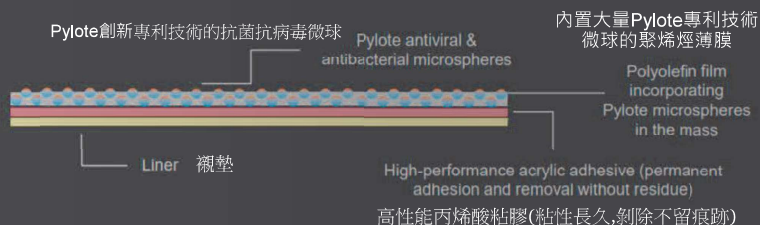
甚麼是 保康潔 Coversafe™ ？

保康潔 Coversafe™ 是很薄的自粘塑膠保護膜



WHAT IS COVERS SAFE™ MADE OF?

COVERSAFE™ comes in the form of an adhesive film (slim plastic cover)

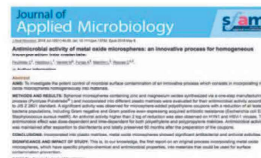


Market innovation awards



Pylote 創新抗菌技術殊榮

Recognition by a large community of scientific experts



ANTIMICROBIAL ACTIVITY

- The microspheres create by catalysis with air humidity Reactive Species
- Reactive Species destroy microorganisms (by oxydation)
- The same type of mechanism (Reactive Species) is found in the metabolism of human cells
- The start of antimicrobial activity is immediate and the action of the microspheres is unlimited (they are not consumed).

保康潔CoverSafe™ 抗菌機理

- 微球經空氣中濕氣催化下形成具反應性物種
- 具反應性物種通過氧化殺滅細菌
- 相同的反應機制存在於人類細胞的新陳代謝中
- 由於殺菌作用在瞬間發生,微球不會容易被消耗掉

- 殺滅微生物
- 反應性物種
- 空氣中濕氣催化反應
- 活性微球
- 聚烯烴薄膜
- 高性能丙烯酸粘膠
- 受保護的物件表面(例如桌面)

Destroys / kills microbes

Reactive Species

Catalytic reaction with moisture

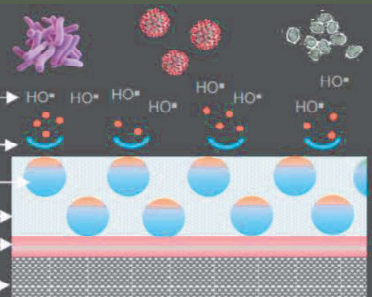
Active Microsphere

Polyolefin film

High performance adhesive

Surface to be protected
(e.g. table)

細菌 病毒 黴菌



保康潔 Coversafe™



SIMPLE, EFFICIENT,
PEACE OF MIND

使用簡單、有效、安全

COVERSAFE™ eliminates
over 99%
of viruses and bacteria

including

> 99.9% of Coronavirus
減少細菌及病毒高達99.9%



MAIN FEATURES

- Eliminates virus and bacteria, including coronavirus
- Completely safe for humans and the environment
- Discreet and aesthetically pleasing
- Antimicrobial effect is stable and not limited in time (tested and certified over 4 years)
- Resistant to cleaning agents

PEACE OF MIND FOR EMPLOYEES
AND CUSTOMERS

令您的員工和顧客安心

保康潔Coversafe™主要應用



DESKS, TABLES AND OTHER WORKSPACES

辦公枱、工作枱



商務會議室枱椅及食堂飯枱

MEETING ROOMS AND CAFETERIA TABLES

表層抗菌解決方案



Handle of Building & Office Main Door
大廈及寫字樓大門把手



保康潔CoverSafe™ 主要應用

表層抗菌解決方案



Buttons/Keypads of door access system
門鈴/門鎖及大門保安密碼鎖按鍵



保康潔CoverSafe™ 主要應用

DOOR HANDLES AND LIGHT SWITCHES

門把手及電燈開關按鈕



樓梯扶手

HANDRAILS

表層抗菌解決方案

保康潔CoverSafe™ 主要應用

表層抗菌解決方案



Buttons of elevator
公共電梯按鈕/按鍵



保康潔CoverSafe™主要應用

BARS AND RESTAURANTS, SHOPS

酒吧、餐廳及商鋪枱椅



公共交通車輛扶手和座椅

PUBLIC TRANSPORTS

表層抗菌解決方案



隆達科技有限公司
AMPLE WAY
Technology Limited

SAFE ALL AROUND

- Not cytotoxic (not harmful to humans) – ISO 10993-5 compliant
- Environmentally safe – EcoCert Certified
- Food safe: FDA GRAS certified
- Listed in EU, US and Japanese Pharmacopoeias
- Compared to metallic substances, absence of: potential toxicity to humans, nanometric size, loss of efficiency over time

保康潔 CoverSafe™ 安全性

- 通過 ISO 10993-5 生物評估證明無毒性
- EcoCert 證明對大自然環境安全
- FDA GRAS 證明食物接觸安全
- 歐盟、美國、日本藥典備案
- 與金屬物質相比, 不具有對人類的潛在毒性、納米尺寸以及隨著時間效能減退的現象出現

COVERSAFE™ Certified 檢測認證機構



保康潔Coversafe™ Antiviral Efficiency 抗病毒效能

Virus Type 病毒種類	Tested Result* 檢測結果*	Efficiency 抗病毒活性率
Influenza virus A / Flu (H1N1) 甲型流感(H1N1)	2.60 logs	>99%
Human Rotavirus (Gastroenteritis) 人輪狀病毒 (胃腸炎)	2.26 logs	>99%
Herpes virus type 1 (HSV-1) 1型皰疹病毒 (HSV-1)	2.20 logs	>99%
Adenovirus type 3 (Conjunctivitis) 3型腺病毒 (結膜炎)	2.40 logs	>99%
Coronavirus 223E 冠狀病毒229E	3.28 logs	>99.9%

*Test method according to ISO 21702

*檢測方法為 ISO 21702

保康潔 Coversafe™ Antimicrobial Efficiency 抗菌效能

Bacteria Type 細菌種類	Tested Result* 檢測結果*	Efficiency 抗菌活性率
Escherichia coli 大腸桿菌	5.75 logs	>99.999%
Staphylococcus aureus 金黃葡萄球菌	3.01 logs	>99.9%
Salmonella enterica 腸沙門氏菌	5.84 logs	>99.999%
Pseudomonas aeruginosa 銅綠假單胞菌	4.07 logs	>99.99%

*Test method according to JIS Z 2801

*檢測方法為 JIS Z 2801

保康潔 Coversafe™ Antimicrobial Test Report 抗菌報告

Test Report

No. T3202000040TY Date: Nov 20, 2020 Page 2 of 4

Test Requested, Test Method and Test Results

The analysis was performed with reference to:
**ISO 21468-1:11 Measurement of antimicrobial activity on plastics and other non-porous surfaces and
 JIS Z 2801-1:14 Antimicrobial Activity - Tests for Antimicrobial Activity and Efficacy**

Test bacteria : *Staphylococcus aureus* ATCC 6538P
 Standard film used : Yes
 Test conditions effectiveness (Remarks 2) : Yes
 Test side : Side without checker pattern
 Antimicrobial Activity value of Test Sample : 5.4
 Requirement compliance of Test Sample : Pass

The number of inoculated bacteria in Untreated Control Specimen (A)		Log
2.34 x 10 ⁵	5.4	

The number of the bacteria in untreated control sample after 24h incubation (B)		Log
3.12 x 10 ⁵	5.5	

Tested sample	Number of bacteria after 24h incubation (C)	Log C	Log B - Log C
As received sample	10	1.0	5.5

Comment : When tested as specified, the submitted original sample provides effective antibacterial property based on the standard value of evaluation against *S. aureus*.

Antibacterial Activity Value (R) x 2.0 (Log B - Log C)

Remarks :
 1. The standard value of evaluation against *S. aureus*: Log B - Log C x 2.0.
 2. The test conditions are judged as effective if:
 a. $(L_{max} - L_{min}) / (L_{max}) \leq 0.2$, where:
 L_{max} is the common logarithm of the maximum number of viable bacteria found on a specimen.
 L_{min} is the common logarithm of the minimum number of viable bacteria found on a specimen.
 b. The number of inoculated bacteria in untreated control sample shall be within the range of 5.02×10^4 to 4.00×10^5 cells.
 c. The number of the bacteria in untreated control sample after 24h incubation shall not be less than 5.02×10^4 cells with standard film.

Signed for and on behalf of
 SGS Hong Kong Ltd.
 Cheng Yui Hai, Jeff
 Technical Manager

Test Report

No. T3202000040TY Date: Nov 20, 2020 Page 3 of 4

Test bacteria : *Escherichia coli* ATCC 8739
Standard film used : Yes
Test conditions effectiveness (Remarks 2) : Yes
Test side : Side without checker pattern
Antimicrobial Activity value of Test Sample : 6.7
Requirement compliance of Test Sample : Pass

The number of inoculated bacteria in Untreated Control Specimen (A)		Log
2.38 x 10 ⁵	5.4	

The number of the bacteria in untreated control sample after 24h incubation (B)		Log
5.16 x 10 ⁵	5.7	

Tested sample	Number of bacteria after 24h incubation (C)	Log C	Log B - Log C
As received sample	10	1.0	6.7

Comment : When tested as specified, the submitted original sample provides effective antibacterial property based on the standard value of evaluation against *E. coli*.

Antibacterial Activity Value (R) x 2.0 (Log B - Log C)

Remarks :
 1. The standard value of evaluation against *E. coli*: Log B - Log C x 2.0.
 2. The test conditions are judged as effective if:
 a. $(L_{max} - L_{min}) / (L_{max}) \leq 0.2$, where:
 L_{max} is the common logarithm of the maximum number of viable bacteria found on a specimen.
 L_{min} is the common logarithm of the minimum number of viable bacteria found on a specimen.
 b. The number of inoculated bacteria in untreated control sample shall be within the range of 5.02×10^4 to 4.00×10^5 cells.
 c. The number of the bacteria in untreated control sample after 24h incubation shall not be less than 5.02×10^4 cells with standard film.

Test Report

No. T3202000040TY Date: Nov 20, 2020 Page 4 of 4

Sample Picture (As received)

SGS authenticates the photo on original report only
 *** End of Report ***

*Test method according to ISO22196 & JIS Z 2801
 *检测方法為 ISO22196 & JIS Z 2801

保康潔 Coversafe™ 不受清潔劑影響抗菌效能
Antimicrobial Efficiency after exposed to disinfectants 100 times

Type of Cleaning Product 清潔劑種類	Tested Result 檢測結果	Efficiency 抗菌活性率
None (Control) 不含清潔劑標本	5.86 logs	>99.999%
Isopropyl alcohol* 異丙醇*	5.86 logs	>99.999%
Surfanios Premium (hospital disinfectant)* 醫院消毒劑*	5.86 logs	>99.999%
Cleaning agent with bleach* 漂白水清洗劑*	5.86 logs	>99.999%

*Each sample was exposed to disinfectant 100 times, then tested according to JIS Z 2801

*每個測試樣本先接觸100次清潔劑, 然後再以 JIS Z 2801 方法檢測