



# **PBA ANTI-MICROBIAL COATING**

THE SURFACE FINISHING FOR HEALTH PROTECTION

**A M C**



**M A D E  
I N I T A L Y**



PBA  
ANTI-MICROBIAL COATING

AMC

PRODUCTS IN ALUMINUM AND STAINLESS STEEL HAVE NATURAL ANTIBACTERIAL PROPERTIES AND A GOOD HANDLE ON CLEANLINESS. PBA ANTI-MICROBIAL COATING (AMC) IS AN INNOVATIVE FINISHING HIGHLY RECOMMENDED FOR ALL SITUATIONS WHERE HYGIENE IS EXTREMELY IMPORTANT NOT ONLY FOR THE DESTINATION, BUT ALSO FOR THE HIGH ATTENDANCE AS HOSPITALS AND GENERALLY PUBLIC SPACES.



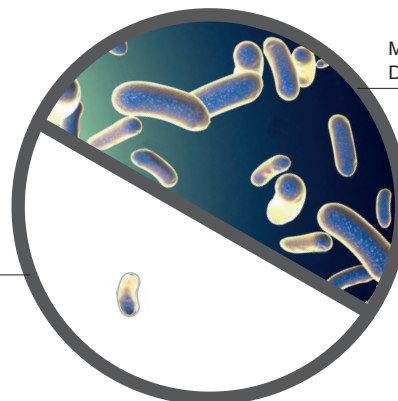






MULTI-RESISTANT PATHOGENS  
DEVELOP WITHOUT PBA AMC

PBA AMC REDUCES PATHOGENS  
BY ABOUT 99.99%



## TRIED AND TESTED EFFICACY

REDUCES MULTI-RESISTANT PATHOGENS BY 99.99%.  
(EFFECT OF ANTI-BACTERIAL ACTIVITY ON STAINLESS STEEL AND ALUMINUM SURFACES).

Messrs. Sides spa – Decoral

ISHIZUKA GLASS CO., LTD.  
Advanced Glass Company

### REPORT ON ANTI-MICROBIAL TEST RESULT

#### 1. Sample:

PU Powder Coated Plates

No.	Sample
1.	FP 456 / 1
2.	FP 456 / 2
3.	FP 456 / 3

#### 2. Outline of test:

The test was executed in according with "JIS Z 2801."

<Bacteria used for test>

*Escherichia coli* NBRC 3972

*Staphylococcus aureus* NBRC 12732

<Density of Nutrient Broth>

1/50 NB

<Incubation Time>

5 Hours

#### 3. Test result:

Table 1. Test result of Anti-microbial effect against *Escherichia coli*

Sample	Number of living bacteria		Antimicrobial activity value against Control	Reduction %
	At beginning	After 5 hours		
1. FP 456 / 1	$2.4 \times 10^5$	$<1 \times 10^2$	$>3.8$	$>99.987$
2. FP 456 / 2	$2.4 \times 10^5$	$<1 \times 10^2$	$>3.8$	$>99.987$
3. FP 456 / 3	$2.4 \times 10^5$	$<1 \times 10^2$	$>3.8$	$>99.987$
Control (Film only)	$2.4 \times 10^5$	$7.7 \times 10^5$		

Table 2. Test result of Anti-microbial effect against *Staphylococcus aureus*

Sample	Number of living bacteria		Antimicrobial activity value against Control	Reduction %
	At beginning	After 5 hours		
1. FP 456 / 1	$2.0 \times 10^5$	$<1 \times 10^2$	$>3.9$	$>99.987$
2. FP 456 / 2	$2.0 \times 10^5$	$<1 \times 10^2$	$>3.9$	$>99.987$
3. FP 456 / 3	$2.0 \times 10^5$	$<1 \times 10^2$	$>3.9$	$>99.987$
Control (Film only)	$2.0 \times 10^5$	$8.0 \times 10^5$		

Messrs. Sides spa – Decoral srl.

ISHIZUKA GLASS CO., LTD.  
Advanced Glass Company

### REPORT ON ANTI-MICROBIAL TEST RESULT

#### 1. Sample:

Powder Coated Plates

No.	Sample
1.	DS413 (Blank)
2.	FP479 / 3 (lonpure)
3.	DS733 (Sample 1)
4.	FP479 / 1 (lonpure)

#### 2. Outline of test:

The test was executed in according with "JIS Z 2801."

<Bacteria used for test>

*Escherichia coli* NBRC 3972

*Staphylococcus aureus* NBRC 12732

<Heat Treatment>

Heat Treatment at 100°C for 13 days in prior to antimicrobial testing

#### 3. Test result:

Table 1. Test result of Anti-microbial effect against *Escherichia coli* without heat treatment

Sample	Number of living bacteria		Antimicrobial activity value against each Blank	Reduction %
	At beginning	After 24 hours		
1. DS413 (Blank)	$9.6 \times 10^4$	$2.2 \times 10^5$		
2. FP479 / 3 (lonpure)	$9.6 \times 10^4$	$<1 \times 10^2$	$>5.3$	$>99.999$
3. DS733 (Sample 1)	$9.6 \times 10^4$	$1.8 \times 10^4$		
4. FP479 / 1 (lonpure)	$9.6 \times 10^4$	$<1 \times 10^2$	$>5.3$	$>99.999$
Control (Film only)	$9.6 \times 10^4$	$2.7 \times 10^5$		

Table 2. Test result of Anti-microbial effect against *Staphylococcus aureus* without heat treatment

Sample	Number of living bacteria		Antimicrobial activity value against each Blank	Reduction %
	At beginning	After 24 hours		
1. DS413 (Blank)	$9.0 \times 10^4$	$2.4 \times 10^6$		
2. FP479 / 3 (lonpure)	$9.0 \times 10^4$	$<1 \times 10^2$	$>4.3$	$>99.995$
3. DS733 (Sample 1)	$9.0 \times 10^4$	$1.2 \times 10^6$		
4. FP479 / 1 (lonpure)	$9.0 \times 10^4$	$<1 \times 10^2$	$>4.0$	$>99.991$
Control (Film only)	$9.0 \times 10^4$	$1.4 \times 10^6$		

## PBA ANTI-MICROBIAL COATING

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THE **PBA ANTI-MICROBIAL COATING (AMC)** SURFACE FINISHING CONTAINS SPECIAL ADDITIVES THAT MAKE THE SURFACE PROTECTED FROM BACTERIA AND MICROORGANISMS. THE TESTS SHOW THAT ON UNTREATED SURFACES THE MICROBES AND BACTERIA CAN EASILY PROLIFERATE WHILE ON THE TREATED SURFACES THE BACTERIAL PROLIFERATION IS PRACTICALLY ZEROED.

PRODUCTS WITH **PBA ANTI-MICROBIAL COATING (AMC)** HAVE BEEN TESTED BY AN INDEPENDENT LABORATORY IN JAPAN, WHICH HAS CERTIFIED THE EFFECTIVENESS ANTIBACTERIAL AGAINST THE TWO MAIN TYPES OF BACTERIA (ESCHERICHIA COLI AND STAPHYLOCOCCUS AUREUS).

### WHERE TO USE

WE RECOMMEND **PBA ANTI-MICROBIAL COATING (AMC)** FOR ALL THE AREAS HYGIENE-SENSITIVE AS HOSPITALS AND RETIREMENT HOME AND GENERALLY FOR PUBLIC BUILDINGS AND HOTELS.

### CARE AND MAINTENANCE

**PBA ANTI-MICROBIAL COATING (AMC)** NEEDS THE SAME CARE OF STANDARD POWDER-COATED SURFACES. SEE PBA CATALOGUE TECHNICAL SECTION FOR MORE INFORMATION.

### STAINLESS STEEL AND ALUMINUM

ALL PBA PRODUCTS IN STAINLESS STEEL AND ALUMINUM CAN BE TREATED WITH **PBA ANTI-MICROBIAL COATING (AMC)**.

### DURABILITY

PRODUCTS WITH **PBA ANTI-MICROBIAL COATING (AMC)** WERE SUBJECTED TO ACCELERATED AGING TESTS FOR THE SIMULATION OF AN EXPOSURE PERIOD OF TEN YEARS: THE ANTIBACTERIAL CAPACITY AT THE END OF THE TEST IS UNCHANGED, AT 100% OF ITS EFFICIENCY.

### LABELING

**PBA ANTI-MICROBIAL COATING (AMC)** IS COLOURLESS, HENCE INVISIBLE: THE PRODUCTS HAVE A AMC LABEL ON THE BACK TO KEEP SEPARATED FROM UN-FINISHED PRODUCTS.



PROGRAMMA 400-HR STAINLESS STEEL HANDRAIL



DESIGN.  
FOR ALL

AMC



PROGRAMMA 400-SS STAINLESS STEEL SUPPORTS AND BATHROOM ACCESSORIES

## PBA ANTI-MICROBIAL COATING (AMC) + DESIGN FOR ALL

**DESIGN FOR ALL SERIES** 400-SS AND 400-ALU ARE IN STAINLESS STEEL AND IN ALUMINUM. BOTH SERIES HAVE AN ERGONOMIC AND CLEAN DESIGN, SUITABLE FOR HEALTHCARE FACILITIES, PRIVATE RESIDENCES, PUBLIC PLACES, OFFICES, RESTAURANTS AND HOTELS.

**PBA ANTI-MICROBIAL COATING (AMC)** IS THE PERFECT FINISHING FOR DESIGN FOR ALL 400-SS AND 400-ALU PRODUCTS TO TOTALLY SATISFY THE HYGIENIC REQUIREMENTS OF SENSITIVE AREAS.

**THE PBA ANTI-MICROBIAL COATING (AMC)** TRANSPARENT FINISHING CAN BE APPLIED TO STAINLESS STEEL PRODUCTS PROGRAMMA 400-SS (SATIN AND POLISHED) AND ALUMINUM PRODUCTS PROGRAMMA 400-ALU (ANODIZED ALUMINUM - AMC ONLY FOR ANODIZED ALUMINUM COMPONENTS).

WE RECOMMEND TO USE THIS FINISHING FOR GRAB BAR AND FOR ALL THE ACCESSORIES AND PRODUCTS FREQUENTLY TOUCHED.

VISIT OUR WEBSITE [WWW.PBA.IT](http://WWW.PBA.IT) FOR MORE INFORMATION ON DESIGN FOR ALL PRODUCTS.

ARCHITECTURAL  
HARDWARE .

A M C



PROGRAMMA 2000 STAINLESS STEEL HANDLES AND DOOR ACCESSORIES

**PBA ANTI-MICROBIAL COATING (AMC) + ARCHITECTURAL HARDWARE**

HOW MANY TIMES A DAY HANDRAILS, HANDLES AND LEVERS ARE TOUCHED BY DIFFERENT HANDS EVERYWHERE AND SPECIFICALLY IN PUBLIC SPACES, OFFICES AND HOSPITAL?

STAINLESS STEEL AND ALUMINUM PRODUCTS HAVE LITERALLY A GOOD HANDLE ON CLEANLINESS, BUT THE **PBA ANTI-MICROBIAL COATING (AMC)** IS THE BEST SOLUTION TO REDUCE THE POTENTIAL RISK OF PATHOGEN TRANSMISSION. WE RECOMMEND THIS FINISHING FOR ALL PRODUCTS LOCATED IN HIGH ATTENDANCE AREAS AND IN HEALTHCARE BUILDING.

PBA IS WORLDWIDE KNOWN AS THE BRAND OF 316L STAINLESS STEEL AND THE BEST ALUMINUM ALLOY. ALL THE ARCHITECTURAL HARDWARE SERIES ARE AVAILABLE WITH **PBA ANTI-MICROBIAL COATING (AMC)**.

**PBA ANTI-MICROBIAL COATING (AMC)** IS AVAILABLE FOR ALL STAINLESS STEEL AND ALUMINUM ARCHITECTURAL HARDWARE PRODUCTS: HANDRAIL, HANDLES, PULL HANDLES, LOCKING AND NON LOCKING LADDER PULLS, LOCKSET FOR FRAMELESS GLASS DOOR, SIGNAGE AND DOOR ACCESSORIES.

THE **PBA ANTI-MICROBIAL COATING (AMC)** FOR PBA HARDWARE IS AVAILABLE IN TRANSPARENT FINISHING AND IN BLACK RAL 9005 FINISHING.

VISIT OUR WEBSITE **WWW.PBA.IT** FOR MORE INFORMATION ON ARCHITECTURAL HARDWARE PRODUCTS.

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