

NEW

AM COAT

Formulated for air conditioner and filter



AM COAT

This antimicrobial self-disinfecting coating is formulated for the air conditioner and filter, it turns the air conditioner into an antimicrobial self-disinfecting weapon against the light aerosol pathogens from contaminating the surface of the external body, facelift, louvre, and the filter as the fan coil draws in the warm air. Tested effective against bacteria, including MRSA and coronavirus, it also helps to eliminate odour and fungi.

AM COAT for air conditioner and filter and **AM COAT 90 days** is best applied together for more comprehensive protection against both the light aerosol and surface pathogenic contamination.

PRECAUTIONS:

- Do not dilute the product
- Avoid contact with eyes
- Keep out of reach of children
- Do not ingest
- Store below 40°C

Application:

- Ensure the air conditioner surface and filter is clean before application
- Spray on the air conditioner surface and do wipe-down
- Spray sparingly on both sides of filter to avoid clogging filter mesh
- Let dry for 10 to 20min before installing onto the air conditioner
- Reapply on scratched surface and replace any worn filter

Maintenance:

Use a clean cloth wet with water to wipe the air conditioner surface to remove dirt and dust, wash the filter twice a month, or if dirty, to prevent clogging and affecting **AM COAT** efficacy lost

Kills 99.9% of Bacteria on surface

Ingredients

Quaternary based Organo-Silane compound



SCAN ME
How to apply

Available in

Trigger Pump Head	500 ml
Screw Cap Tub, Carboy	5 L, 20 L
Drum / IBC Tote Tank	220 L, 1000 L

- Provides the 24/7 and >30 days self-disinfecting protection



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Registration no. 200107294D



Product of Singapore

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Test report carried out by an independent laboratory based on test method JIS Z 2801 : 2010/A1:2012, EN 14476

DISCLAIMER:

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Improve the air quality...

Just chillax

Simple and clean



SCAN ME
How to apply



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AM COAT

formulated for air conditioner and filter



Chill and relax in your home or work place and let your air conditioner improve the air quality you breathe in and stay safe from the airborne pathogens! AM COAT formulated for air conditioner and filter self-disinfects the airborne pathogenic contamination on the external frame, face plate and louvre, or hidden and trapped inside the filter. No extra filters needed.

AM COAT bonds onto the treated surface semi-permanently as a thin layer of transparent coating with a positive charged molecular chain to attract germs and bacteria to its tip, rupturing their cell membrane and killing them 24/7 and >30 days.

Clean the filter twice a month or if it is dirty and recoat any scratched surface. Reapply after 30 days if necessary.

For high touch point surfaces, apply the AM COAT 90 days to safeguard your home or work place from risks of unsuspecting pathogenic contamination and cross infection!



AM COAT >30 days
for air conditioner & Filter



AM COAT 90 Days
for high touch point surface
(also available in 60 days and 180 days)

KILLS 99.9% OF BACTERIA ON SURFACE
HELPS TO ELIMINATE ODOUR & FUNGI



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Improve the air quality...

Airborne pathogenic microorganisms clustered in the dust filter and surface of the air conditioner



Airborne pathogenic microorganisms

Dead pathogen
Cell membrane ruptured upon contact with molecular tip

AM COAT treated surface is protected by positive charged molecular chain 24/7

BEFORE AM COAT

AFTER AM COAT

AM COAT 30 days antibacterial self-disinfecting efficacy test for air conditioner

Treated with AM COAT (Days)

Method	Description	Activity	w/o AM COAT	1	¹ 14	² 30	Remarks
Eurofin: EZ 545 USP 40 <61>	24 hour Air Quality Test: Aerobic Plate Count	Samples exposed >24 hr	2	<1	2	<1	
Eurofin: EZ548 USP 40 <61>	24 hour Air Quality Test: Total Yeasts & Molds Count	Samples exposed >24 hr	6	<1	10	1	
TUV: JIS Z 2801:2010/A1:2012	Staphylococcus aureus (ATCC 6538P) Value of Bacterial Activity: (Criteria not less than 2.0)	90 Days >3.84	--	--	--	--	<10
TUV: JIS Z 2801:2010/A1:2012	Escherichia coli (ATCC 8739) Value of Bacterial Activity: (Criteria not less than 2.0)	90 Days >5.38	--	--	--	--	<10
Eurofin: EN 14476	Murine Hepatitis virus (MHV1) (ATCC/NR-261) 5 min contact time (exposure period in room temp.)	Virus log reduction: 4.27	--	--	--	--	99.9%
TUV: JIS Z 2801:2010/A1:2012	Methicillin-resistant Staphylococcus aureus (MRSA) (NCTC 12493) (Test exposure in room temperature)	Test Day: 120, 154 & 182	--	--	--	--	99.9%
				Min. Value	Max. Value	Mean Value	
In-house	Temperature °C Logged @ 24° C	No. of days: 34	--	22.2° C	31.7° C	24.497 C	Consistent
In-house	Humidity [%rH] (w/o Dehumidifier)	No. of days: 34	--	39.8	83.2	69.576	Average-High
In-house	Coating Thickness (Single treatment with light coating)	Electrostatic & mist sprayer	--	--	--	--	150-300nm
In-house	Air conditioner applied with AM COAT for material corrosion test	>30 days	--	--	normal	normal	No corrosion
In-house	Dust-filter in air conditioner with 24 hr run-in operation (Test 30 days without cleaning activity)		Old filter	Old filter	AM Coat	Clean	Visibly clean on day 30
In-house	Swap test on surface (RLU: clean <200): table (3-point swap)	Hygiena ATP	--	--	--	1, 2 & 3	Clean
In-house	Swap test on surface (RLU: clean <200): glass window	Hygiena ATP	--	--	--	0	Clean
In-house	Swap test on surface (RLU: clean <200): wall	Hygiena ATP	--	--	--	0	Clean
In-house	Swap test on surface (RLU: clean <200): safe cabinet in room	Hygiena ATP	--	--	--	0	Clean
In-house	Swap test on surface (RLU: clean <200): air conditioner louvre	Hygiena ATP	--	--	--	0	Clean
In-house	Swap test on surface (RLU: clean <200): dust filter c/w AM COAT	Hygiena ATP	--	--	--	13	Clean

This 30 days efficacy test is conducted in-house in the sealed 15.35sqm meeting room with a >5 year old air conditioner and 24 hour run-in without any cleaning activity or dehumidifier. Test samples were exposed for 24 hour, collected and tested by external laboratory for air quality aerobic plate count and total yeasts and molds' count. The meeting room's high touch point surfaces were coated with AM COAT 90 days antimicrobial self-disinfecting coating. The air conditioner was turned off for 4 days to disrupt the temperature and humidity level to test the AM COAT self-disinfecting capacity in the 14 days trial. AM COAT is an antimicrobial self-disinfecting coating to complement the air conditioner. Refer to air con manufacturer for their air conditioner feature and ASTM report. Routine cleaning is recommended for AM COAT to continue its self-disinfecting efficacy.

¹Day 14 Air conditioner run-in 24 hour with no cleaning activity

²Day 30 Air conditioner run-in 24 hour with no cleaning activity