



Document Type / Category	Instructions For Use (IFU)
Document Number, Issue, Title	IFU 008, Rev02 Surface Treatment Using Aerosol on HVAC&R Surfaces (Walls, Floors & Surrounds)

1. PURPOSE

This Surface Treatment Procedure outlines the process to effectively apply the Surface Treatment to walls, floors and surrounds within the HVAC&R system using an Aerosol can.

This IFU covers the steps and actions that need to be taken in the use of AerisGUARD Surface Treatment.

All Aeris Environmental personnel, sub-contractors and certified applicators are expected to take an active role in establishing, implementing and maintaining this Procedure in line with this IFU according to their role and responsibility.

The purpose of acting in accordance with this IFU is to have an uninterrupted, smooth process that ensures that correct process and use of the products are followed. This IFU shall also be part of Aeris' continuous improvement initiative.

2. PROCEDURE DESCRIPTION AND PROCESS FLOW

The Surface Treatment of walls, floors and surrounds within HVAC&R systems should be conducted by a Certified AerisGUARD Applicator in accordance with Aeris Environmental Recommendations, this IFU, your work order and / or the job specification. The Surface Treatment should follow the process outlined in **IFU 003 Clean Walls, Floors & Surrounds of HVAC&R Systems**.

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SURFACE TREATMENT USING AEROSOL ON HVAC&R Surfaces
(Walls, Floors & Surrounds)

The steps in this procedure are as follows:

1. Preparation
 - a. Product Handling & Packaging
 - b. Apparatus & Equipment Required
 - c. Product Dilution and Application Rates
 - d. PPE and OH&S Requirements
2. Setup
3. Application Process
4. Clean up Process

3. PROCEDURE

1. Preparation

a. Product Handling & Packaging

Applicators should consult the product Safety Data Sheet (SDS) prior to use and handling.

AerisGUARD Surface Treatment is supplied in a 400g (14.1 oz) Aerosol can.

Always store the product out of direct sunlight and not exposed to hot environments for extended periods of time.

b. Apparatus & Equipment Required

Tarpaulin/Plastic Sheeting (if necessary to block airways)

Ladder

Clamps/Tape

c. Product Dilution and Application Rates

The Aerosol cans are designed for quick and simple application to surfaces as required, whereas for larger areas or bigger jobs we recommend utilising the 5L (1.32 US Gallons) or 20L (5.28 US Gallons) bulk product.

The application rate of Surface Treatment is 60mL/m² (0.21 fl oz/sq ft) for both the Aerosol and bulk application processes.

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d. PPE and OH&S Requirements

- Gloves (*hi density rubber are recommended*)
- full or half face masks with filters rated for pesticides and solvents,
- safety goggles (*Wraparound Clear are recommended*)
- full body waterproof suit with hood is recommended (*Disposable suit is recommended*)
- type 1 heavy duty safety boots should always be worn.

NB - Other safety equipment may be required. OH&S requirements can vary geographically or by project nature.

2. Setup

- a. Ensure that the unit is “off line / isolated from operation” prior to and during the entire Application process. This must be done by an appropriately certified person and may require arrangement with the engineering staff at the site if necessary.
- b. Ensure equipment being used is in good working order.
- c. Remove filtration media to protect the air filters from any deposits of dislodged debris, cleaning solution, treatment solution or water. A tarpaulin or plastic sheeting may be used to cover these if required.
Note: Air filters are best disposed of and replaced when cleaning the air handling system to avoid dirtying the components cleaned downstream of the filters.
- d. Other parts of the system may need to be covered as well, e.g. fan motor and sensors located near the area to be treated.
- e. All traces of dirt must be removed before leaving site.
- f. If the product is being used in commercial kitchens or cold food storage, ensure that all food stuffs are packed away and sealed from exposure to the treatment before cleaning and treatment commences.

3. Application Process

a. Surface Preparation

1. ensure the unit is isolated
2. **ENSURE ALL** surfaces to be treated have firstly been cleaned as per Aeris **IFU 003 Clean Walls, Floors and Surrounds of HVAC&R Systems.**

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3. Apply Surface Treatment

b. Aerosol Application

To apply the 400g/14.1 oz Aerosol Treatment

1. ENSURE area is WELL ventilated
2. Hold the can 20cm (7.9 inches) from the Surface
3. Spray treatment onto surface area, passing over the surface top to bottom and left to right then bottom to top right to left
4. Ensuring a light coverage of 60mL/ m² (0.19 fl oz/sq ft) of surface

c. Drying Times

Leave AerisGUARD Surface Treatment to cure for the required time prior to returning the machine to active operation.

AerisGUARD Surface Treatment requires **10-15 mins curing time**; ensure that the surrounding area is well ventilated and no overly noticeable odour is present prior to the unit being turned back on.

4. Clean up Process

- a. Leave the worksite as you found it
- b. Remove and dispose of all empty product containers
- c. Remove all rubbish you have taken on site
- d. Return the machine to correct operational function

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