



Document Type / Category Information For Use (IFU) / AerisGuard Bioactive Filter Treatment

Document Number 09-06-007

Document Title Application of AerisGuard Bioactive Filter Treatment

Issue 2.0 (12.02.2015)

Issue	Description	Date Approved	Author	Approved by
2.0	Information For Use document (IFU)	Pending	M.Kritzler	S.Gregson

1. PURPOSE

TO TREAT AIR CONDITIONING DUST FILTERS WITH A LONG TERM DUST ENCAPSULATING BIOSTATIC COMPOUND TO REDUCE FUNGAL AND BACTERIAL PROLIFERATION WITHIN THE DUST LADEN FILTER MATRIX.

- This helps the end use customer maintain compliance with
 - AS3666
 - BA19

This IFU covers the steps and actions that need to be taken in the use of AerisGuard Filter Treatment. The IFU meets the requirements of AS/NZS ISO 9001: 2008 standards.

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's continuous improvement initiative.

Author: M. Kritzler	Status:	Issued Date: 12.02.15	Page 1 of 4
Approved by: S.Gregson	Approved	Supersedes: 27.8.2014	Issue: 2.0

1. PROCEDURE DESCRIPTION AND PROCESS FLOW

The treatment of Air Conditioning Dust Filters with AerisGuard Bioactive Filter Treatment. All works to be carried out with the product should be performed in compliance with relevant national Health, Safety and Environmental standards and regulations. Before commencing use of the product consult this IFU, the SDS, your work order and / or the job specification.

If the warnings and instructions are not fully understood or compliance with all safety instructions is not possible contact the manufacturer for clarification, do not use the product.

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 & OHS Requirements
2. Setup
3. Application Process
4. Cleanup Process
5. End of IFU

2. PROCEDURE

1. Preparation

a. Product Handling & Packaging

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

b. Apparatus & Equipment Required

- The product is applied directly to the filter by way of an electric airless spray unit which must have a minimum capacity of 2200 P.S.I working pressure.
- Spray tips will need to be adjusted according to the unit used to ensure an even coverage of the material being sprayed.
- A compressor air type system may be advantageous if large banks of filters are to be treated. Air compressor type equipment allows more adjustment and a finer atomization may be achieved.
- In general a 0.8mm tip has been usually effective although a jet stream in the centre of the spray pattern due to the high viscosity of the product may be apparent.
- It is important to ensure that all media within the filter is covered to ensure no growth pockets can occur in untreated areas of the filter.

Author: M. Kritzler	Status:	Issued Date: 12.02.15	Page 2 of 4
Approved by: S.Gregson	Approved	Supersedes: 27.8.2014	Issue: 2.0

2. Product Dilution and Application Rates

Cardboard disposable and V Form Filters.

The approximate coverage for these filters is up to 150ml per filter.

- The product should be applied evenly to the media surface to ensure the filter media is dampened with the treatment.
- With cardboard disposable, (cardboard / beverage board framed) filters try to avoid the frame as excessive dampening may reduce the structural integrity of the filter.
- Applying a very minimal coating is all that is required to avoid growth on the board.

Deep Bed and Pocket Bag Filters

The approximate rate for these filters is up to 330ml per filter.

- The product should be applied evenly and liberally to the media surface to ensure the filter media is dampened with the treatment.
- Ensure that if the filters are multiple pocket type that penetration is achieved through the depth of the pockets.

PPE & OHS 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*)
- clothing offering skin protection
- type 1 heavy duty safety boots should always be worn.

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

3. 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.

Author: M. Kritzler	Status:	Issued Date: 12.02.15	Page 3 of 4
Approved by: S.Gregson	Approved	Supersedes: 27.8.2014	Issue: 2.0

3. Procedure

c. Application of AerisGuard Filter Treatment

Fill the holding container of airless spray gun or sprayer that is being used and spray evenly over surface of dust filter until desired rate of coverage has been achieved.

d. Drying Times

Drying times will vary depending on the temperature, humidity, ventilation, coverage, thickness, mode of application and substrate being coated.

4. Clean Up

Fill spray unit used to apply AerisGuard Filter Treatment with water if product hasn't had time to dry (use methylated spirit if Treatment has started to dry) and run machine until the Treatment solution has been washed out.

Follow manufacturer's other maintenance procedures for the spray equipment.