

Document Type / Category Instructions For Use (IFU)

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Application of AerisGUARD Duct Coating & Sealant

1. PURPOSE

To specify the physical application of AerisGUARD Duct Coating & Sealant to internally lined and unlined supply air and return air pathways in Air Conditioning systems. This process is to provide resurfacing, and protection to all coated surfaces and achieves the sealing of coated internal duct surfaces. This long lasting protection will extend the life of the linings of ducted airways.

- This helps the end use customer maintain compliance with
 - o AS3666
 - o BA19
- Aeris will warrant prevention from build up of mould, mildew and odour causing bacteria on the surface of the duct coating **for up to 10yrs.**

This IFU covers the steps and actions that need to be taken in the use of AerisGUARD Duct Coating & Sealant.

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 treatment of Air Conditioning Ductwork with AerisGUARD Duct Coating & Sealant should follow the cleaning of the ductwork. 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.

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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. Cleanup Process

3. PROCEDURE

1. Preparation

a. Product Handling & Packaging

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

AerisGUARD Duct Coating & Sealant product comes in a ready to use formulation. The product is available in 10L (2.64 US Gal) Bulk containers. Prior to use each bucket is stirred for 10mins, with the stirrer attachment on a drill being the best method. This product has a shelf life of 6 months.

b. Apparatus & Equipment Required

- High Pressure Airless Spray Equipment, **e.g** -:
Apparatus with a pressure capacity of at least 2800 psi.
 - Graco - 395 or higher
 - Wagner - TBC
- Power Leads
- Paint brushes and rollers where applicable.
- Drill / Paint Stirrer Attachment
- Rags if needed

Other equipment may be needed dependent upon site specifics and access limitations.

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c. Product Dilution and Application Rates

The application rate after stirring of AerisGUARD Duct Coating & Sealant is in the range of 0.7 to 2.5 Litres/M² (2.23 – 7.85 fl oz/sq ft) when applying to non-porous surfaces. To repair damaged insulation a higher application rate will be needed.

d. 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*)
- full body waterproof suit with hood is recommended (*Disposable suit is recommended to keep clean*)
- 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.

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. Area to which the Duct Sealant will be applied should be cleaned before this process takes place.
- d. Proper ventilation and protective measures must be provided during application and drying to keep vapour concentrations within safe limits and to protect against oxygen deficiency hazards

3. Application Process

a. Surface Preparation

- All must be clean, dry and free from dust and visible debris.
- RESIDUAL DUST LEVELS prior to application of AerisGUARD Duct Coating & Sealant must not exceed the rating as “clean” described by the NADCA system of assessment.
- For porous surfaces with existing mould contamination, cleaning with AerisGUARD Surface Cleaner and treatment with AerisGUARD Bioactive Surface Treatment is recommended prior to the application of AerisGUARD Duct

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Coating & Sealant.

b. Application of AerisGUARD Duct Coating & Sealant

- i. Mix with an electric drill fitted with a paint stirrer for a period of at least 10 mins to achieve a consistent viscosity.
- ii. If thinning is required for the use of the product by brushes or rollers A MAXIMUM OF 150mL OF WATER / 10 LITRES can be added and thoroughly stirred into the product.
- iii. Application by brush or roller is only recommended for small areas with the use of airless equipment recommended for full coats.
- iv. For thick coatings the product is best applied in several coats with a short drying period between each coat to build the desired film thickness onto the intended substrate.

c. Where any damaged perforated lining is encountered:

There is an even greater need to apply several coats of the product to ensure that it is able to form a strong, smooth bond with the damaged substrate with a sufficiently thick coating to seal lining imperfections.

d. Drying Times

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

e. Application at Low Temperatures

AerisGUARD Duct Coating & Sealant is designed to coat at 18 °C (64.4 °F) and above. When the product is used at lower temperatures there is a need to use warm air to warm the substrate prior to coating. There is no maximum temperature.

4. Clean Up Process

AerisGUARD Duct Coating & Sealant is water based and as a result all equipment used can be cleaned using water **so long as cleaning is performed prior to drying. Do not allow product to dry in hoses or spray equipment and thoroughly flush all equipment with water immediately once spraying has been completed.**

Periodically flush spray equipment with water during the course of the working day. Frequency of cleaning will depend upon the amount of product sprayed, the temperature and elapsed time including any delays. It is important not to dispose waste to drains.

Dispose of all waste in accordance with appropriate regional regulations/ legislation.

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4. **WARRANTY REGISTRATION**

a. Surface Preparation

All surfaces to be coated must be clean, dry and free from the dust and visible debris.

b. Registration of Warranty

To register your application for the warranty period specified on the product warranty document please complete and retain a copy and return a copy of the below application information to Aeris Environmental.

Please also register your information via the below registration link also found on the Aeris Environmental website www.aeris.com.au.

5. **PHOTOGRAPHIC REPORTING**

If required, a photograph can be taken of coated surfaces.

Photographic recording of completed work is highly recommended to demonstrate the quality of the coating work.

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