

AEROTECH® Insulation Coating Alkyd

INTERIOR & EXTERIOR

SOLVENT BASED

1K

Description:

A one component, solvent based, UV-traceable alkyd conformal coating that insulates & waterproofs electrical equipment. This product is available in clear or red (UV-traceable only available in clear).

Intended Uses:

AEROTECH® Insulation Coating Alkyd is designed to provide electrical insulation, mechanical protection & environmental resistance to a variety of electrical components including electrical windings, coils, wires, motor frames, electrical motors, electrical appliances & generators.

This coating once cured forms a barrier against moisture, dust, chemicals & oil, and enhances the dielectric strength of electrical components, helps prevent short circuiting, and improves heat dissipation allowing components to operate effectively at high temperatures. This product also helps to bond & stabilize coils, wires and windings, reducing vibration & wear over time.

UV-Traceable Inspection & Quality Assurance: Available in clear variation only, AEROTECH® Insulation Coating Alkyd allows applicators and inspectors to quickly verify coating coverage on printed circuit boards under ultraviolet (UVA 320–400 nm) light. When exposed to a black light, correctly coated areas fluoresce (blue), making it easy to identify voids, bubbles, thin spots, or missed areas that would otherwise be invisible to the naked eye. This feature enhances quality control during application and supports efficient inspection and troubleshooting, ensuring uniform film build and reliable long-term protection of sensitive electronic components.

Features & Benefits:

- Provides electrical insulation.
- Protects against corrosion.
- Provides thermal protection.
- High flexibility.
- Water resistant.
- Heat resistant – Can withstand dry continuous temperatures up to 100°C.
- Tough & durable.
- Fast drying
- UV-Traceable – Enhances inspection & quality control procedures.

Technical Data:

Product Physical Form	Liquid
Binder Type	Modified alkyd
Colour	Clear & Red
Appearance	Smooth gloss
Typical Film Thickness	25 – 30 µm DFT
Method of Application	Aerosol spray
Number of Coats	1 – 2 coats by aerosol to achieve typical DFT
Temperature Resistance	Dry continuous – 100°C*
Pack Size	400ml (12 cans per carton)
Storage	Store can with the nozzle on, out of direct sunlight in dry conditions between 5°C and 25°C, away from sources of heat or ignition.
Shelf Life	12 months when stored as recommended in original un-opened containers

AEROSOLS: AEROTECH - TECHNICAL

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Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

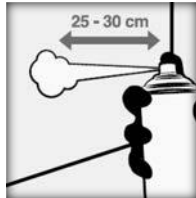
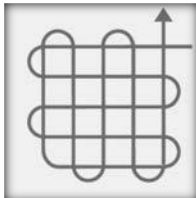
Latest Update:
02/02/2026
Issue Date:
08/11/2016

Surface Preparation:

All surfaces to be coated must be clean & free from any oils, dirt, dust, flux residues and any moisture before applying AEROTECH® Insulation Coating Alkyd. Do not apply this coating in humid environments or in very cold environments where there is a risk of encapsulating water/moisture beneath the coating.

Cleaning/degreasing work can be done using **AEROCLEAN® Circuit Board Cleaner** in combination with a suitable soft bristle brush to support the cleaning process. For best results, re-rinse the surface after the initial cleaning process is complete. Once the surface is completely dry & free from contaminants, application of AEROTECH Insulation Coating Alkyd can begin.

Application:

Mixing	Shake the aerosol can well before beginning application. Make sure to always do the first spray on a test surface first, as the top of the valve system may hold more solvent than resin on the first spray. This is normal.
Aerosol	Move the can slowly and evenly back and forth changing direction only after the spray has moved past the object. This will help control the amount of paint being sprayed and will avoid finish defects. Apply additional coats if desired. Additional coats should be applied before the first coat is completely dry, but within 1 – 2 minutes of the prior coating being applied. For more than 4 coats, 24 hours should be allowed before coating to avoid the risk of solvent entrapment and subsequently paint lifting / blistering. After spraying and for storage purposes, invert can and spray to clean the residue out of the nozzle.   

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	5°C*	5°C	No lower limit
Maximum	45°C	45°C	85%

* Or 3°C above dew point

Limitations:

- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

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Systems & Compatibility:

Consult a Specialized Coating Systems technical representative for system solutions.

Safety Information:

- Refer to product SDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection and skin protection.
- Apply in well-ventilated areas.