

AEROTECH® Insulation Coating Acrylic

INTERIOR & EXTERIOR

SOLVENT BASED

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Description:

A single component, low viscosity, solvent based, elastic UV-traceable acrylic conformal coating with quick drying & excellent insulating properties. This product is available in clear or red (UV-traceable only available in clear).

Intended Uses:

AEROTECH® Insulation Coating Acrylic is designed to protect and insulate printed circuit boards. It will protect printed circuit boards from caustic or humid inorganic acid vapours & help prevent any electrical leakages or short circuiting.

AEROTECH® Insulation Coating Acrylic can withstand continuous temperatures up to 60°C & intermittent temperature surges up to 100°C and can also be used as an extra/after insulation coating on coils & transformers.

UV-Traceable Inspection & Quality Assurance: Available in clear variation only, AEROTECH® Insulation Coating Acrylic 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:

- Easy to use one component product in an aerosol.
- Fast drying.
- High flexibility.
- Heat resistant.
- Excellent insulating properties.
- Can be soldered through for repair work that needs to be done.
- UV-Traceable – Enhances inspection & quality control procedures.

Technical Data:

Product Physical Form	Liquid
Binder Type	Modified acrylic
Colour	Clear or red
Appearance	Smooth gloss
Volume Solids	19%
Typical Film Thickness	20µm DFT
Theoretical Coverage	4.2 m ² / 400ml aerosol can
Number of Coats	2 – 3
Drying time @ 20°C	30 minutes
Method of Application	Aerosol spray
Temperature Resistance	Dry continuous – 60°C Intermittent – 100°C
Flashpoint	< 4°C
Pack Size	400ml (12 cans per carton)

AEROSOLS: AEROTECH®

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

Dry Film Properties:

After 24 hrs drying at ambient temperature, thickness 20 – 40µm

Surface resistivity at 20°C: Refer TSD Dept.

Volume resistivity at 20°C: Refer TSD Dept.

Dielectric strength: Refer TSD Dept.

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 Acrylic. 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.

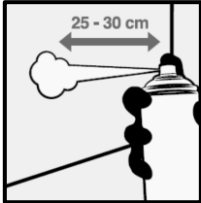
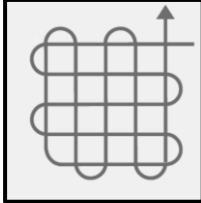
Cleaning/degreasing work can be done using **AEROCLEAN® Circuit Board Cleaner** in combination with a suitable soft bristle brush to support the cleaning process. For best results, re-rinse the surface after the initial cleaning process is complete. Once the surface is completely dry & free from contaminants,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

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	10°C*	15°C	No lower limit
Maximum	35°C	40°C	85%

* Or 3°C above dew point

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.
Application Process	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.   

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Limitations:

- Do not apply near any sources of ignition or on any live electrical components.
- Do not apply this coating in humid environments or in very cold environments where there is a risk of encapsulating water beneath the coating.
- Compatibility with materials to be coated should always be checked by first performing test patches.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- 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.

Storage:

- Shelf Life: 12 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.
- Store at temperatures between 5°C and 35°C.

Systems:

Consult with Specialized Coating System for application specific recommendations.

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.