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## ChemTools Acrylic UV+ Conformal Coating

### Description

ChemTools Acrylic UV+ Conformal Coating is a general purpose, economical coating that provides insulation and protection against the environment. This product is easy to apply and gives a tough, high gloss finish, resistant to moisture and fungal growth.

Clear tough protective coating.  
Resistant to abrasion and staining.  
Economical.  
Resistant to mould growth.  
High Dielectric strength  
Contains an indicator to aid inspection under UV light.

### Physical Properties:

Composition:	Acrylic Lacquer
Color:	Clear light amber
Specific Gravity:	1.05
Flash Point:	12°C
Solids Content:	25%
Cure Time:	20 minutes @ 20°C
Full Cure Time:	24 hours

### Cured Properties:

Drying Time:	15-30 minutes
Appearance:	Clear, flexible, glossy film
Operating Temperature Range:	-50°C to 120°C
Dielectric Strength:	45KV/mm
Dielectric Constant:	3.5
Insulation Resistance:	1 x 10 <sup>12</sup> Ohms/cm



## **Application Methods:**

Can be sprayed dipped or brushed. The final thickness of the coating is dependant upon the application method. To ensure satisfactory adhesion the material to be coated should be completely clean, dry and dust free prior to coating. It is recommended that flux residues are removed as some may be corrosive if left on the PCB. (Contact your solder supplier to determine compatibility). Check compatibility of the plastics that will be in contact with this coating prior to use.

Ensure switches, contacts, etc are masked prior to application of conformal coating.

**Aerosol** – Shake the can prior to use. To ensure an even coating, hold the aerosol can 200mm away from the surface at an angle of 45°, depress the trigger just before the aerosol is moved over the substrate using a smooth motion and stop spraying just after moving off the substrate. Use short overlapping strokes and rotate the substrate by 90° and re-spray to ensure complete coverage. After spraying, place in a dust free, air circulating drying cabinet until dry.

**Dip** – Using a suitable container, immerse the substrate completely for a few seconds, then withdraw slowly to ensure a complete and even coating. Allow to drain and then place in a dust free air circulating drying cabinet until dry.

**Brush** – Using a clean dry brush apply the conformal coating with smooth even strokes. Vigorous brushing should be avoided as it will lead to air bubbles. When completed place in a dust free air circulating drying cabinet until dry.

## **Storage:**

Store in a cool, dry place in sealed containers at a room temperature between 8°C to 28°C. Please do not return any unused material to its original container.

**PRECAUTIONS:** This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material.

**Warranty:** All products purchased from or supplied by ChemTools are subject to terms and conditions set out in the contract. ChemTools warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by ChemTools is considered accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. ChemTools makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.

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