A NEW FORCE IN CHEMICAL MANUFACTURING

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TECHNICAL DATA SHEET

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PRODUCT NAME

CT-LQR Circuit Board Lacquer

PRODUCT RANGE

Part Number	Available Size
CT-LQR-400	400g Aerosol
CT-LQR-1L	1 Litre
CT-LQR-5L	5 Litres
CT-LQR-20L	20 Litres

Refer to MSDS for product safety guidelines

CT-LQR Circuit Board Lacquer

Chemtools® Circuit Board Lacquer is a general purpose economical resin 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.

FEATURES AND BENEFITS:

- Clear protective coating
- Resistant to abrasion and staining
- Economical
- Fast drying
- Resistant to fungal growth
- High dielectric strength

PHYSICAL PROPERTIES:

Colour	Clear, Light Straw
Specific Gravity	1.05
Flash Point	12°C
Solids Content	25%
Drying Time	20 minutes @ 25°C
Full Cure Time	24 hours

CURED PROPERTIES:

Drying Time	15 - 30 minutes
Appearance	Clear, Flexible, Glossy Film
Operating Temperature Range	-10°C to 120°C
Dielectric Strength	30 kV/mm
Dielectric Constant	2.6 @ 100 kHz
Insulation Resistance	1.0 x 1012 ohm-cm

APPLICATION METHODS:
Can be sprayed, dipped, or brushed. The final thickness of the coating is dependent 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 200 mm 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, and 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 is 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 products meet the specifications designated as such herein, or in other publications. All other information supplied by Chemtools® is considered accurate, but is furnished upon the express condition. The customer shall make its own assessment to determine the products suitability for a particular purpose. Chemtools® makes no other warranty, either expressed 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 products will not infringe any patent.