

Product Information

Elmotherm® 009-0051

Conformal Coating

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Elmotherm® 009-0051

Description:

Elmotherm® 009-0051 is a Class B, single component, solvent based acrylic conformal coating. It has been designed with a solvent system that balances an optimum evaporation rate with reduced safety risk and thus dries rapidly in thin films at ambient temperatures – for ultra short drying times, temperatures up to 80°C can be employed.

Elmotherm® 009-0051 dries to give a tough, flexible film that has good adhesion to most commonly used substrates and exhibits excellent resistance to moisture. The film also has excellent anti-tracking properties and is able to be soldered through. For ease of visual examination of coated components an Ultra-violet fluorescent tracer has been incorporated into the formulation, which fluoresces under UV light enabling non-coated areas to be identified more easily.

Elmotherm® 009-0051 has been independently tested for compatibility with various types of solder masks (both UV and 2-pack solder resists of various specifications) and was found to be compatible in all the tested cases. 009-0051 also conforms to the requirements of BS 5917 and MIL-I-46058C.

Application:

Elmotherm® 009-0051 is designed for brush, spray or dipping techniques onto dry, grease free clean components.

Processing:

Components should be processed at ambient temperatures. Cure temperatures up to 80°C may be utilised.

Application can be at the viscosity as supplied, which will give a 1-2 thou film build, or may be reduced to lower viscosities (and consequently film builds) by addition of ELANTAS UK Reducer F219.

Maintenance of Resin:

Containers of Elmotherm® 009-0051 should be stored in a cool place away from direct sunlight or other heat sources.

Properties:

Appearance		
Viscosity	200 - 250 @ 35% solids	mPas @ 25°C
Specific Gravity	0.93	g / cm ³
Mix Ratio	Single component	p.b.w.
Mix Ratio	Single component	p.b.v.
Gelation Time	15 minutes	@ 21°C
Cure Schedule	24 hours or 10 minutes	@ 25°C @ 50°C
Flash Point	19	°C

GENERAL DATA

DRYING TIME (Touch dry)

Temperature (°C)	Time (mins)
20°C	15
50°C	10

NB The optimum properties of the film will develop over a period of 24 hours.

FLASH POINT (CLOSED CUP) 19°C

FILM FLEXIBILITY (1/8 inch mandrel test) Passes

CHEMICAL PROPERTIES

Humidity resistance Passes
(DIN 50017 >96 hours)

Salt spray resistance Passes
(ASTM B117 96 hours @ 35°C)

ELECTRICAL PROPERTIES

Dielectric Strength @ 25°C 4.68 kV/mil
(IEC 60464-2)

Comparative Tracking Index >600 V
(IEC 112)

Our advice in application technology given verbally, in writing and by testing corresponds to the best of our knowledge and belief, but is intended as information given without obligo, also with respect to any protective rights held by third parties. It does not relieve you from your own responsibility to check the products for their suitability to the purposes and processes intended. The application, usage and processing of the products are beyond our reasonable control and will completely fall into your scope of responsibility. Should there nevertheless be a case of liability from our side, this will be limited to any damage to value of the merchandise delivered by us. Naturally, we assume responsibility for the unobjectionable quality of our products, as defined in our General Terms and conditions.