

2K350 Two-Component Polyurethane Coating

2K350 is a flame retardant, high performance two-component, solvent-free conformal coating, designed specifically for selective coating processes. 2K350 is characterised by greater coating thickness, enhanced edge coverage and shows extreme flexibility and extremely low stress on components. 2K350 is formulated to cure quickly with oven curing.

- Improved high temperature performance and flame retardant
- Hydrophobic; excellent resistance to humidity, condensation and immersion in water
- Soft coating; provides low stress during typical automotive thermal shock cycles
- High coating thickness achievable; enhanced edge coverage for better protection

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals | RoHS Compliant (2015/863/EU): REACH Compliant: IPC-CC-830 Rev. C: | Yes Yes Meets Requirements |
| Liquid Properties | Appearance: Density @ 20°C: Flash Point: Min. Solids Content (1hr @80°C): Mix Ratio: Viscosity (mixed) @ 25°C: Useable Life (mixed static mixer): Touch Dry Time at 20°C: Recommended Drying Time: | Opaque Blue Liquid 1.12 g/ml (mixed) >100°C > 98.5% 5:1 v/v Sprayable 5 Minutes 24 Hours 10 Minutes @ 80°C 40-60 Mins @ 50-60°C |
| Dry Film Coating | Colour: Recommended Coating Thickness: Temperature Range: Thermal Shock Range: Thermal Shock (1000 cycles): Elongation at Break (BS EN ISO 537): Tensile Strength (BS EN ISO 537): Elastic Modulus (BS EN ISO 537): Dielectric Strength: Surface Insulation Resistance: Moisture Resistance (B24 @ 85°C/85%RH) Flammability: | Blue Opaque 100-300µm -65 to +130°C -65 to +130°C No cracking, blistering or delamination* 100% 2.5 ± 0.2 MPa 3.8 ± 0.4 MPa 90 kV/mm 9 x 10 ¹⁵ Ω 158 x 10 ⁹ Ω Self-extinguishing |

*Other thermal shock regimes are also possible, i.e. different temperatures, number of cycles, etc.

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BS EN ISO 9001:2008
Certificate No. FM 32082

Description

2K350 Conformal Coating Part A
2K Part B

Packaging

32oz
20oz

Order Code

E2K35032OZ
E2KPBO20OZ

Directions for Use

2K350 is intended to be applied by selective spray coating. It is recommended that the use of a high accuracy, volumetric metering system, such as progressive cavity pumps are used to control the mix ratio of the two components. It is recommended that a minimum 10 turn static mixer is used to ensure complete mixing of the two components prior to reaching the dispense valve. The use of a heated applicator block can result in reduced film builds and faster cycle times. 60°C is a typical set-point.

The material works best when a relatively high flow rate and low atomising air combination is used, but this will depend on the design of the assembly, required cycle times and other process considerations. Machine settings for various 2K selective spraying options are available upon request.

Inspection

2K350 is an opaque blue colour which enables visual inspection of the PCB after coating to ensure complete and even coverage. The blue opaque nature of the material improves contrast for Automated Optical Inspection Systems.

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