

HumiSeal® 1B31HS Acrylic Conformal Coating Technical Data Sheet

HumiSeal® 1B31HS is a high viscosity and high solid content version of HumiSeal® 1B31. HumiSeal® 1B31HS is an acrylic coating demonstrates excellent flexibility, fluoresces under UV light for ease of inspection and is easily repaired. HumiSeal® 1B31HS coating is RoHS Directive 2002/95/EC compliant.

Properties of HumiSeal® 1B31HS

Density, per ASTM D1475	0.96 ± 0.02 g/cm³
Solids Content, % by weight per Fed-Std-141, Meth. 4044	53.0 ± 2.0 %
Viscosity, per Fed-Std-141, Meth. 4287	7000 +/- 1500 cps
VOC	423 grams/liter
Drying Time to Handle per Fed-Std-141, Meth. 4061	10 minutes
Recommended Curing Conditions	24 hrs @ RT or 30 min @ 76°C
Time Required to Reach Optimum Properties	7 days
Recommended Stripper	HumiSeal® Stripper 1080
Shelf Life at Room Temperature, DOM	24 months

Application of HumiSeal® 1B31HS

Cleanliness of the substrate is extremely important to the successful application of a conformal coating. Surfaces should be free of moisture, dirt, wax, grease and all other contaminants. Otherwise, ionic or organic residues on the substrate could be trapped under the coating and cause problems with adhesion or electrical properties. The highest long term reliability for a coated printed circuit assembly will be when the conformal coating is applied over a clean, dry substrate. The application of conformal coatings over no clean flux is a common practice. The user should perform adequate testing to confirm compatibility between the conformal coating and their particular assembly materials and process conditions.

Brushing
HumiSeal® 1B31HS may be brushed with an optional but recommended a small addition of HumiSeal® Thinner 503. Uniformity of the film depends on component density and operator's technique.

Storage
HumiSeal® 1B31HS should be stored away from excessive heat or cold, in tightly closed containers. HumiSeal® products may be stored at temperatures of 0 to 35°C. Prior to use, allow the product to equilibrate for 24 hours at a room temperature of 18 to 32°C.

Caution
Application of HumiSeal® Conformal Coatings should be carried out in accordance with local and National Health and Safety regulations.

The solvents in HumiSeal® Conformal Coatings are flammable. Material should not be used in presence of open flame or sparks. Use only in well-ventilated areas to avoid inhalation of vapours or spray. Avoid contact with skin and eyes.

Consult MSDS/SDS prior to use.

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