

HumiSeal UV40GEL™ Technical Data Sheet

HumiSeal UV40GEL™ is a single component, high solids, UV curable gel. A secondary moisture cure mechanism will cure unexposed areas within 2-3 days at ambient conditions. The gel fluoresces under UV light to allow inspection. HumiSeal UV40GEL™ is in full compliance with the RoHS Directive 2002/95/EC.

Typical Properties of HumiSeal UV40GEL™

Density	1.06 g/cm ³
Solids Content	100%
Recommended Coating Thickness, microns	25-125
Recommended UV Dose*	1-4 J/cm ²
Shelf Life at Room Temperature, DOM	12 months
Dielectric Withstand Voltage, volts per MIL-I-46058C	>7,500
Dielectric Constant, at 1MHz and 25°C per ASTM-D150-65T	2.5
Dissipation Factor, at 1MHz and 25°C per ASTM-D150-65T	0.01
Insulation Resistance, ohms per MIL-I-46058C	8.0 x 10 ¹⁴ (800T)
Moisture Insulation Resistance, ohms per MIL-I-46058C	6.0 x 10 ¹⁰ (60G)

* Fusion "H" style bulb recommended

Application of HumiSeal UV40GEL™

Cleanliness of the substrate is of extreme importance for the successful application of a conformal coating. Surfaces must be free of moisture, dirt, wax, grease flux residues and all other contaminants. Contamination under the coating could cause problems that may lead to assembly failures.

Syringe Application

HumiSeal UV40GEL™ is intended for automated needle dispensing, but may also be applied manually.

Clean Up

To clean uncured HumiSeal UV40GEL™, non-alcohol based solvents should be used. HumiSeal Thinner 600 is recommended.

Rework

HumiSeal UV40GEL™ is a highly cross linked UV cured coating. The cured film has a high degree of environmental and chemical resistance and will be more difficult to remove than traditional conformal coatings. Thermal displacement and mechanical abrasion are suitable options for rework of HumiSeal UV40GEL™.

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Storage

HumiSeal UV40GEL™ is photosensitive. The product should not be exposed to direct sunlight or full spectrum fluorescent lighting. HumiSeal UV40GEL™ should be stored at 0 to 35°C, away from excessive heat, in tightly closed opaque containers. Prior to use, allow the product to equilibrate for 24 hours at room temperature. HumiSeal UV40GEL™ is a moisture curing material and care should be taken to protect process vessels and partial containers from moisture. Partial containers must be purged with a dry, inert gas such as dry air, nitrogen or argon, before closure, otherwise premature polymerization by atmospheric moisture will occur.

Caution

Use only in well-ventilated areas to avoid inhalation of vapours or spray. Avoid contact with skin and eyes. Consult MSDS prior to use.

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