

HumiSeal® Acrylic Gel Technical Data Sheet

HumiSeal® Acrylic Gel is a fast drying, single component, thixotropic acrylic paste that provides excellent moisture and environmental protection for printed circuit assemblies. HumiSeal® Acrylic Gel has been designed for use with our acrylic conformal coatings. HumiSeal® Acrylic Gel can be used for sealing, damming and to provide an extra level of protection around component leads. HumiSeal® Acrylic Gel fluoresces under UV light for ease of inspection and is easily repaired. HumiSeal® Acrylic Gel is in full compliance with the RoHS Directive 2002/95/EC.

Properties of HumiSeal® Acrylic Gel

Density, per ASTM D1475	0.95 ± 0.02 g/cm ³
VOC	699 grams/litre
Recommended Thickness	≤ 3mm
Tack Free Time	10 min @ 80°C
Recommended Curing Conditions	3 hrs @ 80°C
Time Required to Reach Optimum Properties	7 days
Recommended Stripper	HumiSeal® Stripper 1080, 1080EU
Shelf Life at Room Temperature, DOM	12 months
Dissipation Factor, at 1MHz and 25°C, per ASTM D150-98	0.01
Insulation Resistance, per MIL-I-46058C	5.5 x 10 ¹⁴ ohms (550TΩ)
Moisture Insulation Resistance, per MIL-I-46058C	7.0 x 10 ¹⁰ ohms (70GΩ)

Application of HumiSeal® Acrylic Gel

Cleanliness of the substrate is of extreme importance for the successful application of a Acrylic Gel. Surfaces must be free of moisture, dirt, wax, grease, and all other contaminants. Otherwise, ionic or organic residues on the substrate could be trapped under Acrylic Gel and cause problems with adhesion or electrical properties. The highest long term reliability for a coated printed circuit assembly will be when Acrylic Gel is applied over a clean, dry substrate.

The application of Acrylic Gel over no clean flux is a common practice. The user should perform adequate testing to confirm compatibility between Acrylic Gel and their particular assembly materials and process conditions. Please contact HumiSeal for additional information.

Syringe Application

HumiSeal® Acrylic Gel is intended for automated needle dispensing, but may also be applied manually.

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Storage

HumiSeal[®] Acrylic Gel 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[®] Acrylic Gel should be carried out in accordance with local and National Health and Safety regulations.

The solvents in HumiSeal[®] Acrylic Gel 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.

Contact HumiSeal[®]

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