

HumiSeal

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
VOC
Recommended Thickness
Tack Free Time
Recommended Curing Conditions
Time Required to Reach Optimum Properties
Recommended Stripper
Shelf Life at Room Temperature, DOM
Dissipation Factor, at 1MHz and 25°C, per ASTM D150-98
Insulation Resistance, per MIL-I-46058C
Moisture Insulation Resistance, per MIL-I-46058C

0.95 ± 0.02 g/cm³ 699 grams/litre ≤ 3mm 10 min @ 80°C 3 hrs @ 80°C 7 days HumiSeal[®] Stripper 1080, 1080EU 12 months 0.01 5.5 x 10¹⁴ ohms (550TΩ) 7.0 x 10¹⁰ 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.



HumiSeal[®] Acrylic Gel Technical Data Sheet

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®

HumiSeal North America

201 Zeta Drive Pittsburgh, PA 15238 USA Tel: +1 412-828-1500 Toll Free (US only): 866-828-5470 sales@humiseal.com

HumiSeal Technical Center

295 University Avenue Westwood, MA 02090 USA Tel: +1 781-332-0734 Fax: +1 781-332-0703 techsupport@humiseal.com

HumiSeal Europe

505 Eskdale Road, IQ Winnersh Berkshire RG41 5TU UK Tel: +44 (0)1189 442 333 Fax: +44 (0)1189 335 799 europeansales@chasecorp.com

HumiSeal Europe Support Tel: +44 (0)1189 442 333 Fax: +44 (0)1189 335 799 europetechsupport@chasecorp.com

HumiSeal S.A.R.L

4/6 Avenue Eiffel 78420 Carrieres-Sur-Seine France Tel: +33 (0) 1 30 09 86 86 Fax: +33 (0) 1 30 09 86 87 humiseal.sarl@chasecorp.com

HumiSeal Asian Support

Tel: 852-9451-6434 Fax: 852-2413-6289 asiatechsupport@humiseal.com

The information contained here is provided for product selection purposes only and is not to be considered specification or performance data. Under no circumstance will the seller be liable for any loss, damage, expense or incidental or consequential damage of any kind arising in connection with the use or inability to use its product. Specific conditions of sale and Chase's limited warranty are set out in detail in Chase Corporation Terms and Conditions of Sale. Those Terms and Conditions are the only source that contain Chase's limited warranty and other terms and conditions.

See