

HumiSeal

HumiSeal[®] 1A33 LOF Technical Data Sheet

HumiSeal® 1A33 LOF is a single component, polyurethane conformal coating, suitable for general printed circuit board applications. The formula of 1A33 LOF contains curing accelerants which significantly reduce curing times compared with other polyurethane coatings. High levels of chemical resistance and physical hardness can be achieved after 4 hours at 85°C.

HumiSeal® 1A33 LOF is specially formulated using reduced odour and low toxicity solvent, making it ideal for use in many situations.

Similar to other Humiseal Polyurethane coatings, 1A33 LOF provides high levels of physical and chemical protection and is supplied in a convenient 1 part solvent system, which can be cured easily. After complete cure, the properties of HumiSeal® 1A33 LOF and other HumiSeal® 1A33 products are comparable.

HumiSeal® 1A33 LOF contains no free isocyanates, toluene or xylene, and is RoHS Directive 2015/683 and RoHS 2 compliant.

Product	Viscosity, CPS	Solids Content, %	Density, g/cm ³	VOC, g/L
1A33 LOF	130-260	42-47	0.90 ± 0.04	488
1A33 LOF PB65	60-75	40-44	0.87 ± 0.02	505

Properties specific to HumiSeal® 1A33 LOF Pre-blended Products as Supplied

Properties of HumiSeal® 1A33 LOF

Conformal coatings can be successfully applied to substrates that have been cleaned prior to coating and also to substrates assembled with low residue, 'no clean' assembly materials. Users should perform adequate testing to confirm compatibility between the conformal coating and their particular assembly materials, process conditions and cleanliness level. Please contact Humiseal for additional information.



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Dipping

A controlled rate of immersion and withdrawal (5-15 cm/min) will further ensure even deposition of the coating and ultimately a uniform film. During the application, evaporation of solvent causes an increase in viscosity that should be adjusted by adding small amounts of Thinner. Viscosity in the dip tank should be checked regularly, using a simple measuring device such as a Zahn or Ford viscosity cup.

Spraying

HumiSeal[®] 1A33 LOF Pre-Blends are available which can be sprayed using conventional spraying equipment. Spraying should be done in an environment with adequate ventilation so that the vapour and mist are carried away from the operator. The specific pre-blend and spray pressure will depend on the specific type of spray equipment used and operator technique.

Brushing

HumiSeal[®] 1A33 LOF Pre-Blends are available which may be brushed onto surfaces. Uniformity of the film depends on specific pre-blend chosen and operator's technique.

Storage

HumiSeal[®] 1A33 LOF 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® 1A33 LOF and its Pre-Blends 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 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 India

J-154, M.I.D.C Bhosari Pune 411 026 Maharashtra India Tel: +91 20 66308098 indiatechsupport@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

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

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