



Product Data Sheet

EXPERIMENTAL PRODUCT: **ULTEC 3001**

Product code: 252B580

Product description:

ULTEC 3001 is an experimental product from LVH's Ultra Low Temperature Cure project. The objective is to study the possibilities of producing electro-lacquers with cure response below 120C. This might enable thermal cure on substrates that are not currently able to be coated with conventional thermal curing processes using the 120 – 180C temperature range. This includes plated plastics, low melting point alloys and other substrates with thermally induced out-gassing problems. ULTEC 3001 has been formulated to optimise manufactured shelf life and production bath life taking account of it being a one-component process of high reactivity. When cured in the 120 – 130C range it develops resistance to the ANSI/BHMA perspiration test (>4cycles at 120C metal temperature for 30 minutes, 20 micron thickness). The low temperature cure also enables a significant level of colour retention and corrosion protection for solid brass without the use of chromate treatments.

Provisional product characteristics:

One component form: As-delivered solids content 58 – 63% w/w (100C for 2 hours).

Processing equipment:

Standard electro-lacquering process including closed loop TRAP ultrafiltration.

Bath conditions:

Solids:	9-11% recommended.
Operating MEQ/C	40 – 45
Temperature:	20 – 25C
Deposition voltage/time	30 – 60 volts for up to 2 minutes for required thickness.

Curing: Lab tests on ULTEC 3001 show that practical cure response is between 100 and 140C. Actual cure/performance profiles over different substrate types are being investigated.

Health and Safety – refer to separate MSDS.

LVH Coatings advises that this is an experimental process and so its full capabilities and ultimate viability in its present form are not yet established.

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Certificate No.17131

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