

DETAIL SPECIFICATION –CONFORMAL COATING

MATERIAL CONATHANE CE 1155	LSE SPEC # QAP-D-322	PREPARED BY:
		QA:
		PROJECT:

1.0 SCOPE

THIS SPECIFICATION COVERS THE PREPARATION, HANDLING, AND DISPOSAL OF CE1155A/B AND S-8 THINNER FOR USE IN CONFORMAL COATING OF ELECTRONIC P.C. ASSEMBLIES.

2.0 APPLICABLE DOCUMENTS

- NASA SPECIFICATION NHB 5300.4(3J).
- GSFC INSPECTION OF POLYMERIC MATERIALS-APPLICATIONS MANUAL.
- CONAP PRODUCTS CO. TECHNICAL INFORMATION BULLETIN FOR CONATHANE CE1155
- CONAP PRODUCTS CO. MSDS SHEET FOR CONATHANE CE1155

3.0 HANDLING

- HANDLING IN ACCORDANCE WITH CE1155 AND S-8 MSDS SHEET.
- FIRE AND TOXICITY- HAZARDS HIGH.
- REACTIVITY- HAZARDS SLIGHT.
- HANDLE WITH VINYL GLOVES. MIX IN FUME HOOD.
- PRE-HEAT UPON RECEIPT IF CRYSTALLINE. 1 HOUR@60C

4.0 DISPOSAL

- CURED SAMPLE TO BE STORED AS WITNESS SAMPLE FOR A MINIMUM OF 30 DAYS; THEREAFTER, DISPOSE WITH DAILY TRASH DISPOSAL.
- UNCURED LIQUID TO BE DISPOSED OF VIA CSR SAFETY PERSONNEL THROUGH M.I.T. SAFETY OFFICE.

5.0 MIXING PROCEDURE

- CONATHANE CE1155 WILL REACT WITH MOISTURE; THEREFORE:
 - CLEAN BEAKERS, MIXING RODS, SPATULAS, ALUMINUM DISHES, ETC

WITH REAGENT GRADE ISOPROPYL ALCOHOL PRIOR TO USE.

-PREPARE CE1155 PART A

-DRAW PART A FROM CAN USING SYRINGE.

-USING OHAUS CT 1200 SCALE, PLACE 100 GRAMS OF CE1155 PART A
IN A CLEAN DRY BEAKER.

-PURGE BEAKER WITH NITROGEN AND COVER WITH ALUMINUM FOIL.

-PURGE CE155 PART A CAN WITH NITROGEN AND COVER.

-ADD PART B TO PART A

-USING OHAUS CT 1200 SCALE, ADD 70 GRAM OF CE1155 PART B
TO PART A IN BEAKER.(OF COURSE,USING NEW SYRINGE.)

-PURGE CE155 PART B CAN WITH NITROGEN AND COVER.

-S-8 THINNER CAN BE ADDED PER NEED UP TO 10% BY WEIGHT.

-MIX WITH METAL SPATULA FOR 2 MINUTES.(GENTLY , DO NOT AERATE.)

-SEPARATE CONTROL SAMPLE FROM BEAKER AND PLACE IN OVEN
AT 100°C FOR 5 MINUTES

-EVACUATE BEAKER FOR 2-3 MINUTES.(OPTIONAL)

-APPLY TO PC ASSEMBLY PER CONFORMAL COAT WORKSHEET.

-CURE-

-TACK-FREE OVERNIGHT

-FULL CURE – 5-7 DAYS @ 25C OR 3 HOURS @ 60C