1.0 SDS Information

A safety data sheet is readily available to all those having potential contact with the product. The SDS should be held in file for reference purposes as specified by the OSHA Worker Right to Know Requirements.

2.0 Scope

CureUV 500005 Premium Clear Wet-Look Finish Topcoat is a high gloss Urethane Acrylate UV curable coating that is near zero in volatile organic compounds (VOC's) and near zero in hazardous air pollutants (HAP's). It exhibits exceptional flow and leveling properties when applied to plastic surfaces. **CureUV 500005 Premium Clear Wet-Look Finish Topcoat** exhibits very good flexibility in combination with scratch resistant properties. The target market for this product has been the recreational vehicle industry, although it has been used successfully for other applications. It is recommended that it be applied by spray coating methods although other methods may be appropriate.

3.0 Material Properties

The following are target properties, not specifications.

3.1 Physical Properties

3.1.1	Non-Volatiles, wt.%:	> 99
3.1.2	Density, lb/gal:	8.80 – 9.20
3.1.3	Brookfield Viscosity, cps: (# 2 spindle, 20 rpm, 21° C)	100 - 200
3.1.4	Surface Tension, dynes/cm:	23.0 – 29.0
3.1.5	VOC	
	EPA Method (less water), lb/gal:	0.03
	Actual wt.%:	0.37
	Actual, lb/gal:	0.03
3.1.6	HAP, lb/lb:	~0.00
3.1.7	UVA Cure Dose, mJ/cm^2 (1.0 mil application thickness)	250 – 350

3.2 Other product information

3.2.1 Recommended Wet (and resulting dry) film thickness: 0.75 mil – 2.0 mils
(Permit to level at ambient conditions for a duration of 1 to 4 minutes.)

3.2.2 Cleanup:

wet coating	Absorb using appropriate media and use acetone or isopropanol to remove remainder with absorbent wipe. Dispose of in accordance to national, state and local regulations
dry coating	will be insoluble and may be disposed of as solid waste.

3.2.4 Material supplied "ready to use". In the event reduction is desired, the use of acetone is recommended. It is strongly suggested to contact Van Technologies for information concerning any corrective, and/or modifying actions.

4.0 Finish Performance Data (As applied as both seal and topcoat)

Recommended Usage
For plastic surfaces, interior or exterior use, specifically used for recreational vehicle body surface applications. Other applications requiring flexible, scratch resistant properties.

Characteristics
Hard surface, highly crosslinked composition having excellent flexibility and scratch resistance. UV curable, near zero VOC and near zero HAP, non-flammable.

Quick Reference Table:

Characteristics	Ranking
Household Chemicals	5
Abrasion Resistance	5
Moisture Resistance	5
Build/Solids	5
Dry Time	5
Yellowing	5
Repairability	2

Key: 1 = Poor 2 = Fair 3 = Good 4 = Very Good 5 = Excellent

5.0 Process requirements:

5.1 Dry/Cure for a 0.75-2.00 mil wet film thickness (0.75-2.00 mil DFT)

5.1.1 UVA Cure Dose (EIT Power Puck Radiometer) establishes dose for cure to be between 250-350 mJ/cm^2

5.2 Application Equipment Recommendations:

5.2.1 As necessary to apply a uniform continuous layer of coating over the substrate.

5.2.2 Fluid temperature should be between 70 F and 100 F.

** Do not apply when ambient temperature is < 60 F

5.2.3 Inline fluid filter: < 50 micron

5.2.4 Fluid pump: Diaphram pump for HVLP application; Graco Glutton Pump for airless and air assisted airless application

5.2.5 Dust Control: All air currents impinging on wet applied coating should be filtered to remove airborne contaminants.

5.2.6 Review UV Tech Tips for other equipment recommendations.

5.3 Shipping/Stacking of Parts:

5.3.1 The cured coating has high resistance to physical and chemical stress and will not exhibit "blocking" even in the event excessive temperatures and stacking pressure occur.

5.3.2 Parts should also be protected from excessive handling, aggressive movement during shipment can cause scratching and marring.