 <small>Performance Finishes by Van Technologies, Inc.</small>	GL-5895 Low Sheen Acrylate Topcoat (formerly VanUltra-5895)	Technical Data Sheet	
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1.0 MSDS Information

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

2.0 Scope

GL-5895 is a Low Sheen Acrylate UV curable wood coating that is near zero in volatile organic compounds (VOC's) and zero in hazardous air pollutants (HAP's). It can be used as its own sealer as it is very sandable and has excellent adhesion when applied over itself. **GL-5895** is a low viscosity, 100% solids UV coating that exhibits excellent flow and leveling. It also exhibits uniform coverage when applied over a sealed wood surface. The gloss level of the **GL-5895** can be controlled between 5% to 95% (60°) per customer requirements and it is typically used for low sheen applications (5%-15%). It is recommended that it be applied by spray, vacuum, or mist coating methods although other methods may be appropriate.

3.0 Material Properties

The following are target properties, not specifications (for GL-5895 flat/satin sheen).

3.1 Physical Properties


3.1.1	Non-Volatiles, wt. %:	> 98
3.1.2	Density, lb/gal:	9.2 – 9.6
3.1.3	Brookfield Viscosity, cps: (# 2 spindle, 20 rpm, 21° C)	100 - 200
3.1.4	Surface Tension, dynes/cm:	34.0 – 38.0
3.1.5	VOC	
	EPA Method (less water), lb/gal:	0.13
	Actual wt. %:	1.33
	Actual, lb/gal:	0.13
3.1.6	HAP, lb/lb:	Zero
3.1.7	UVA Cure Dose, mJ/cm ² (1.25 mil application thickness)	200 – 250

3.2 Other product information

3.2.1 Recommended Wet (and resulting dry) film thickness: 0.5 mil – 2.0 mils

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.

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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 all wood surfaces, interior use, commonly used on moulding and millwork, doors, siding, floors, etc.

Characteristics

Hard surface, highly crosslinked composition having excellent chemical resistance and abrasion resistance. UV curable, near zero VOC and 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	4
Repairability	2

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

5.0 Process requirements:

- 5.1 Dry/Cure for a 1.25 mil wet film thickness (1.25 mil DFT)
 - 5.1.1 UVA Cure Dose (EIT Power Puck Radiometer) establishes dose for cure to be between 200 – 250 mJ/cm²
- 5.2 Application Equipment Recommendations:
 - 5.2.1 Spray Gun/tip Options:
 - 5.2.1.1 Graco Compliant with HVLP Air Cap with 0.030 tip, 10-15 psi fluid pressure, 30 psi atomizing pressure

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5.2.1.2 Binks HVLP – #92 tip (0.034”), #97P air cap, 10 psi fluid pressure, 45 psi atomizing pressure

5.2.2 Dubois Mist Coater:

5.2.2.1 Line Speed: 34 – 35 fpm

5.2.2.2 Fluid Temperature: 90° F

5.2.2.3 Pump Fluid Pressure: 30 psi

5.2.2.4 Atomization Air Pressure: 35 psi

5.2.2.5 Spray Gun Fluid Pressure (6 guns): 3.8 psi

5.2.2.6 Applied Wet Weight per Square Foot: 2.5 – 2.8 gm

5.2.3 Review UV Tech Tips for other equipment recommendations.

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

5.3 Shipping/Stacking of Parts:

Parts may be stacked and packaged immediately after cure.