



**GL-8360 Polyurethane
Dispersion/Urethane Acrylate-
for Adhesion Promotion**
(formerly VanAqua-836)

Technical Data Sheet

Date: 3/11/10

Page 1 of 3

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-8360 is a pre-sealer and/or sealer composition for UV curable finish systems. It is especially formulated to inhibit the oil, sap, pitch and resin bleed of corresponding wood species from interfering with the adhesion of subsequently applied UV curable sealers and topcoats. The **GL-8360** is a waterborne, UV curable, polyurethane based composition that crosslinks with UV curable sealers or topcoats as they react to ultraviolet light. It exhibits excellent adhesion to a wide variety of wood species including those containing oil, sap, pitch and resin content. It may be applied by various methods including brush, wipe, spray, and vacuum coat.

The **GL-8360** is low in VOC and near zero HAP (0.04 lb/lb solids), providing an excellent choice for conformance to strict environmental compliance standards.

3.0 Material Properties

The following are target properties, not specifications.

3.1 Physical Properties

3.1.1	Appearance	hazy to cloudy white liquid
3.1.2	Non-Volatiles, wt. %:	26 - 30
3.1.3	Density, lb/gal:	8.4 – 8.8
3.1.4	# 2 Zahn Cup Viscosity @ 21° C, sec.	12 – 14
3.1.5	Surface Tension, dynes/cm	36 – 40
3.1.6	VOC	
	EPA Method (less water, lb/gal):	1.50
	Actual wt. %:	4.85
	Actual, lb/gal:	0.41
3.1.7	HAP, lb/lb	0.04

3.2 Other product information

3.2.1	Protect from light during storage and use.	Protect from freezing.
3.2.2	Recommended Wet film thickness:	0.5 mil – 3.0 mils
3.2.3	Cleanup:	
	wet coating	Absorb using appropriate media and use water to remove remainder with absorbent wipe. Dispose of in accordance to national, state and local regulations.

 Performance Finishes by Van Technologies	GL-8360 Polyurethane Dispersion/Urethane Acrylate- for Adhesion Promotion (formerly VanAqua-836)	Technical Data Sheet	
		Date: 3/11/10	Page 2 of 3

dry coating

will be insoluble in water and residues may be cleaned using acetone or isopropanol. Solid removed residues 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. In fact, the dilution with acetone can be tolerated up to 50% by volume and is optionally used in this form for rapid drying of applied coating. To dilute with acetone, begin by using an agitator to create a vortex in the coating liquid in a suitable mixing container. Add acetone while the coating is under agitation.

NOTE: The dilution with acetone will result in a flammable composition. Take measures to guard against associated hazards and refer to acetone material safety data sheet and technical data information from the acetone supplier.

In the acetone diluted form, exceptionally thin dry film build is achieved while still being effective in inhibiting oil, sap, pitch and resin bleed from corresponding wood species and promoting UV sealer and topcoat adhesion. For any additional information and for information concerning any corrective, and/or modifying actions, it is strongly suggested to contact Van Technologies.

3.2.5 When applied, the GL-8360 should be dried but not UV cured. It is intended that the actual cure should occur during the curing of applied UV curable sealer. Therefore, after application, and if the dry surface is not sealed or topcoated with the UV curable sealer, the surface should be protected from light to prevent premature cure of the VanUltra-836 layer.

Large surface areas can be managed by using subdued lighting and preventing sunlight exposure. Windows should be shaded.

4.0 **Finish Performance Data (As applied with GL- 5400 sealers and 5800 Series UV curable topcoats)**

Recommended Usage

For all wood surfaces, specifically wood species containing an elevated sap or oil content.

Characteristics

Tiecoat surfaces exhibit exceptional clarity, excellent adhesion to most wood species, and excellent intercoat adhesion with most topcoats. Waterborne, low VOC and ultra low HAP, non-hazardous and non-flammable.

Quick Reference Table:

Characteristics

Ranking



**GL-8360 Polyurethane
Dispersion/Urethane Acrylate-
for Adhesion Promotion**
(formerly VanAqua-836)

Technical Data Sheet

Date: 3/11/10

Page 3 of 3

Household Chemicals	NA-intended to be topcoated
Abrasion Resistance	NA-intended to be topcoated
Moisture Resistance	5
Build/Solids	NA-intended to be topcoated
Dry Time	5
Yellowing	NA-intended to be topcoated
Repairability	NA-intended to be topcoated

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

5.0 Process requirements:

5.1. Application Equipment Recommendations:

5.1.1 Spray Gun/tip Options:

- 5.1.1.1 Graco Compliant with HVLP Air Cap with 0.030 tip, 10-15 psi fluid pressure, 30 psi atomizing pressure
- 5.1.1.2 Binks HVLP – #92 tip (0.034”), #97P air cap, 10 psi fluid pressure, 45 psi atomizing pressure

5.1.2 The coating may be applied using a brush, floor applicator/spreader to achieve a wet layer of approximately 1.5 mil to 2.5 mil in thickness. This layer should be allowed to dry for 35 to 45 minutes in subdued lighting. Avoid sunlight exposure and sources of UV light. Proceed immediately with UV curable seal coat application and cure.

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

5.2. Shipping/Stacking of Parts:

5.2.1 Parts may be stacked and packaged immediately after drying.

5.3. Once the applied coating is dry, proceed immediately with UV curable seal coat application. Protect dry applied coating from light, especially UV light prior to UV curable seal coat application.