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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 510400 is a waterborne/UV curable hybrid finish that is low in volatile organic compounds (VOC's) and zero in hazardous air pollutants (HAP's). The coating dries to a clear, tack free finish and is UV cured for final hardness. It exhibits excellent adhesion to itself and to a variety of water based sealers. It is recommended to be applied by spray coating method, although other methods may be appropriate.

3.0


Material Properties

3.1 Certification of Analysis

3.1.1	Density, lb/gal:	8.50 – 9.00
3.1.2	Non-Volatiles, wt. %	30 – 35
3.1.3	VOC	
	EPA Method (less water), lb/gal:	0.43
	Actual wt. %:	1.18
	Actual, lb/gal:	0.15
3.1.4	HAP, lb/lb:	Zero
3.1.5	Brookfield RVT Viscosity, cps (#2 spindle @ 21°C)	450 - 850
3.1.6	Surface Tension, dynes/cm:	33 - 37
3.1.7	Gloss Value (60°)	
	3.1.7.1 Gloss	70+
	3.1.7.2 Semi-Gloss	48-55
	3.1.7.3 Semi-Satin	28 – 35
	3.1.7.4 Satin	18 - 25
3.1.8	Cure Dose, mJ/cm ²	200 - 250

3.2 Other product information

3.2.1	Recommended wet film thickness:	3.00 – 4.00 mils
3.2.2	Cleanup:	
	wet coating	Water
	dry coating	Dry coating is very chemically resistant and will require aggressive scrubbing/abrasion. Paint stripping chemicals may offer assistance following procedures accompanying such chemicals.

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- 3.2.3 Material supplied “ready to use”. In the event reduction is desired, only water is necessary. It is strongly suggested to contact Van Technologies for information pertaining any corrective, and/or modifying actions.
- 3.2.4 Shelf Life: 6 months from date of manufacture.

4.0 Process requirements:

- 4.1 Optionally apply stain and allow to fully dry prior to application of seal coat.
- 4.2 Apply seal coat to a wet thickness between 3 mil – 4 mil
 - 4.2.1 Applicable Seal Coats:
 - 4.2.1.1 GL-4400: apply and dry
 - 4.2.1.2 GL-2470: apply and dry
 - 4.2.1.3 GL-2870: apply and dry
 - 4.2.1.4 GL-8885: Cure using between 200 mJ/cm² and 250 mJ/cm² (UV-A) to permit full cure. “B” staged cure conditions between 125 mJ/cm² and 175 mJ/cm² (UV-A) may be used to promote adhesion between seal coat and topcoat when intercoat abrasion conditions are less aggressive.
- 4.3 Sand seal coat surface using between 180 and 220 grit.
- 4.4 Apply topcoat to a wet thickness between 3 mil – 4 mil
- 4.5 Cure using between 200 mJ/cm² and 250 mJ/cm² (UV-A) to permit full cure.
- 4.6 Application Equipment Recommendations:
 - 4.6.1 Air (conventional, HVLP, and Compliant), air-assisted airless and airless spray methods of application may be used.
 - 4.6.2 Vacuum coat conditions can vary depending on profile, linear line speed, and desired wet/dry coat thickness and must be determined experimentally.
- 4.7 Pumps and Filtering Equipment:
 - 4.7.1 All wetted metal parts should be of stainless steel.
 - 4.7.2 Fluid lines should be opaque to UV light and water resistant
 - 4.7.3 In-line filtering should use 100mesh stainless steel filters for effective removal of wood dust and fibers during recycling of coating fluid.
- 4.8 Shipping/Stacking of Parts:
 - 4.8.1 The cure finish is exceptionally durable and will not exhibit “blocking” under considerable stacking pressure.

5.0 Process Precautions:

- 5.1 Manual Application: It is recommended that individuals protect from potential skin contamination and inhalation through the use of a respirator and appropriate clothing. Protective gloves, safety glasses, long sleeves and pant legs, and safety shoes are necessary for adequate protection. Any skin contamination should be immediately removed by thorough cleaning using soap or detergent followed by complete rinsing, repeating as necessary to remove all traces. Certain individuals may experience skin sensitivity upon exposure. Dry deposits on the skin may be especially irritating upon any exposure to UV or sunlight. Preventative precautions should be taken appropriately.

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When spray application is being performed, the use of a spray booth in compliance with OSHA standards is recommended. It is common practice in many locations to dispose of used spray booth air filters as ordinary, non-hazardous solid waste but it is advised that each facility confirm that this practice is acceptable with local, state and federal regulations for their locale.