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Polymers and Coatings Program
Department of Chemistry and Biochemistry
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July 22, 2011

Roxanne Swift
Technical Director
Design Polymerics
11609 Martens River Circle
Fountain Valley, CA 92708

Dear Roxanne:

We have completed our analysis of the volatile organic compound content of the DP 5050 sealant sample you sent us.

We analyzed this sample using a slightly modified version of ASTM Method 6886. We used methanol as the solvent and ethylene glycol diethyl ether as the reference compound. Using the 500 ppm cutoff specified in ASTM D6886-03 this sample has zero material VOC and zero coating VOC.

We have calculated two different VOC values for this coating. The material VOC is the grams of VOC per liter of product, which is also the fraction VOC multiplied by the density of the coating in g/L. This is sometimes referred to as the actual VOC. The coating VOC is the grams of VOC per liter of coating minus liters of water minus liters of exempt solvents. In other words, the denominator in the calculation reflects the volume remaining from one liter of product after subtracting the volume of water and the volume of exempts in the liter of product. The coating VOC is sometimes referred to as the regulatory VOC or grams of VOC per liter of coating less water and less exempt compounds.

Summary results for the sample are shown below.

VOC Measured using ASTM D6886-03					
density/(g/L)	solid fraction	water fraction	VOC fraction	material VOC/(g/L)	coating VOC/(g/L)
1339	0.6763	0.3236	0.000	0	0

Please let me know if you have any questions.

Sincerely,

Dane R. Jones, Professor
(805) 756-2528