

October 24, 2014 Via Email: *chris@intcoatings.com* 

Mr. Chris Collins CEO International Coatings Group, Inc. 757 SE 17<sup>th</sup> Street Fort Lauderdale, FL 33316-2960

SUBJECT: Results of Volume Solids Determination; KTA-Tator, Inc. Project No. 340763-2

Dear Mr. Collins:

In accordance with KTA-Tator, Inc. (KTA) Proposal PN144851, the subsequent signed Authorization to Proceed dated September 17, 2014, and email authorization dated October 23, 2014, KTA has completed volume solids determination for the submitted sample. This report contains a description of the testing procedure employed and the results of the testing.

## **SAMPLES**

One container of liquid coating material labeled "FBL-100 (9-8-14)" was received from International Coatings Group, Inc. (ICG) on September 19, 2014, and designated as Sample KTA-1. It should be noted that at no time did KTA personnel witness the acquisition or preparation of the sample.

## **VOLUME SOLIDS**

Volume solids content was determined for Sample KTA-1 (FBL-100) in accordance with ASTM D2697-03(08), "Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coating." Four uncoated disks were weighed in air and then, in water. After drying, the disks were coated and then cured at ambient laboratory conditions ( $70 \pm 2^{\circ}$ F and  $50 \pm 5\%$  relative humidity) for one hour before being placed in a  $100^{\circ} \pm 5^{\circ}$ C oven for one hour. After cooling, the coated disks were weighed in air and in water. Calculations were performed incorporating the weight solids and density results. The volume solids of Sample KTA-1 (FBL-100) was determined to be 65.43%

## **Density**

Density was determined for Sample KTA-1 (FBL-100) in accordance with ASTM D1475-13, "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" at 25°C. A calibrated cup was weighed empty and then weighed full of liquid coating. The air bubbles were eliminated from the coatings as much as feasible by gently tapping the cup. Calculations utilizing the weight of the coating material and a constant for the calibrated cup were performed to determine the density. The reported result is the average of four individual results. The results of the testing ranged from 11.958 to 11.979 lb/gal and averaged 11.969 lb/gal.

## **Weight Solids**

The weight solids content was determined for Sample KTA-1 (FBL-100) in accordance with ASTM D2369-10e1, "Standard Test Method for Volatile Content of Coatings." Briefly, this method involves placing a known amount of paint into an aluminum dish, heating to remove all the volatile compounds and then reweighing the sample. The percent weight solids content was calculated by dividing the remaining sample weight by the initial sample weight and multiplying by 100. The percent weight solids content of Sample KTA-1 (FBL-100) was determined to be 73.07%.

If you have any questions concerning the testing or this report, please contact me by telephone at 412.788.1300 extension 185, or by email at nkelly@kta.com.

Sincerely,

KTA-TATOR, INC.

Nicholas J. Kelly Chemical Technician

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