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KTA-TATOR, INC.

115 Technology Drive, Pittsburgh, PA 15275

August 31, 2010
Via Email: tony@epox-z.com

Mr. Tony Camarota
Epox-Z Corporation
82 Bowker Street
Norwell, MA 02061-1246

SUBJECT: Tensile Adhesion of Epox-z Industrial Coating; KTA-Tator, Inc. Project 300381-R1

Dear Mr. Camarota:

In accordance with KTA-Tator, Inc. (KTA) Proposal Number PN100543R1 and subsequent signed Authorization to Proceed, KTA has tested the tensile adhesive strength of a coating material. This report describes the testing procedures employed and contains the results of the tensile adhesion testing.

SAMPLES

One (1) quart kit of Epox-z Industrial Coating, Part A- Batch # 03091001; Part B- Batch #04011002 was received on June 7, 2010, from Epox-Z Corporation. It should be noted that at no time did KTA personnel witness the manufacturing or sampling of the materials sent to KTA.

LABORATORY INVESTIGATION

The laboratory investigation consisted of determining the adhesion of the epoxy coating to Dens Decking material, a rubber membrane, cold rolled steel and blast cleaned hot rolled steel. The test methods used and the results are described below.

Tensile Adhesion Strength

Tensile adhesion (pull-off strength) was measured in accordance with ASTM D 4541, "Pull-Off Strength of Coatings Using Portable Adhesion Testers," Annex A4, "Self-Aligning Adhesion Tester Type IV." If the surface was a coating, the testing surface was wiped clean and abraded gently using fine sandpaper. Pull stubs with an abraded test surface were attached to the coating using a two-component epoxy adhesive (Araldite 2011), which was allowed to cure for 24 hours at ambient laboratory conditions. The pull-stubs were then detached using a self-aligning pneumatic adhesion tester (PATTI-Pneumatic Adhesion Tensile Testing Instrument) employing the F4 or F8 piston (range: 2039/4079 psi, respectively). The force (in psi) required to remove each pull-stub was recorded along with the location of break and approximate percentage of each. The location of break

is defined as adhesive (a split between layers), cohesive (within a layer), or glue failure (coating strength exceeds glue strength). The results of the testing can be found in the table below, "Results of Tensile Adhesion Testing."

Results of Tensile Adhesion Testing

Coating on:	Pull Stub ID	Pull-Off Strength (psi)	Location of Break	Average Pull-Off Strength (psi)
Dens Decking	1A	264	100% cohesive, within fiberglass layer	257
	1B	264	100% cohesive, within fiberglass layer	
	1C	243	100% cohesive, within fiberglass layer	
Blast Cleaned Steel	4A	2446	60% cohesive within coating, 40% adhesive, to substrate	2800
	4B	2936	60% cohesive within coating, 40% adhesive, to substrate	
	4C	3017	60% cohesive within coating, 40% adhesive, to substrate	

Results were calculated as follows:

$POTS = [(BP * Ag) - C] / \text{area of pull stub}$, where

POTS = pull-off tensile strength

BP = burst pressure (dial reading)

Ag = contact area of gasket with reaction plate = 8.000 square inches for the F8 piston

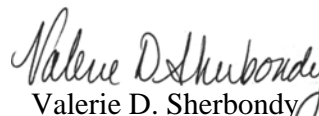
C = piston constant = 1.068 pounds

Area of pull stub = 0.196 sq. inches

If you have questions regarding this report, please contact me at (412) 788-1300, extension 183, or by e-mail at vsherbondy@kta.com.

Very truly yours,

KTA-TATOR, INC.


Valerie D. Sherbondy
Senior Chemist

VDS/CMS:kdw
JN300381

R1 – A revision was issued due to a modification in the presentation of data.

(300381 Epox-Z coating.doc)

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