



TEST REPORT

In Account With LIQUIGUARD TECHNOLOGIES, INC. 2755 E. Oakland Park Blvd, Suite 300 Fort Lauderdale, FL 33306 Attn: Abbas A. Sadriwalla	Date December 11, 2007	Page 1 of 5 Pages
	W.O. Number 35857-2	Specification Not Specified
	P.O.No. Verbal	Received 11-30-07

IDENTIFICATION : The test sample was submitted for testing. The test sample was identified as follows:

IDENTIFICATION

Liquiguard-PC3

SPECIFICATION : Not Specified.

REFERENCE : A letter from Liquiguard Technologies, dated 11-27-07.

TESTING : Flexibility, Adhesion, and Impact testing.

SUMMARY : The test results, reported herein, are submitted for customer evaluation.

Respectfully submitted,
PACIFIC TESTING LABORATORIES, INC.

Michael Shin
Laboratory Director

FLEXIBILITY

REQUIREMENT : The coating should not crack, or crazing when tested per paragraph 4.8.11.

REFERENCE : MIL-I-46058C, Amendment 7, paragraphs 3.14 and 4.8.11.

TEST METHOD: : The specimen was tested for Flexibility in accordance with paragraph 4.8.11.

CONDITIONING : Tested "as received" at room temperature.

RESULTS : When the tested specimens were visually examined at 10X magnification, the specimens exhibited no evidence of cracking or crazing of coating material.

REMARKS : The Samples tested met the requirement stated by the customer when subjected to the Flexibility Test as described herein.

ADHESION

REQUIREMENT : The coating should not detach from the substrate when tested per ASTM D 3359, Method B (Cross-Cut Tape Test).

REFERENCE : ASTM D 3359, Method B (Cross-Cut Tape Test).

TEST METHOD: : The specimen was tested for Adhesion in accordance with ASTM D 3359, Method B.

CONDITIONING : Tested "as received".

TEST DESCRIPTION: About one (1) inch cuts were made for each specimen using a multiblade cutter. The specimens were cut through the film to the substrate in one steady motion using just sufficient pressure on the cutting tool to have the cutting edge reach the substrate. After making the required cuts, brushed the film lightly with a soft brush to remove any detached flakes or ribbons of coating.

Then, the tape was placed over the grid. To ensure good contact with the film, the tape was rubbed firmly with the eraser on the end of a pencil. Within 90 seconds of application, the tape was removed by seizing the free end and rapidly (not jerked) back upon itself at as close to an angle of 190 degree as possible. The grid area was inspected for removal of coating from the substrate.

RESULTS : When visually examined, the edges of the cuts were completely smooth and none of the squares of the lattice was detached.

REMARKS : The Samples tested met the requirement stated by the customer when subjected to the Adhesion Test as described herein.

IMPACT TEST

- REREFERENCE : ASTM D1709 (Free-Falling Dart Method).
- REQUIREMENT : The coating should not crack, peel, or have edge failure when impacted with a heavy metal object.
- TEST METHOD : Each of the two Samples submitted for the Impact Test were tested as-received, at room ambient conditions; there was no conditioning required.

A Test-Fixture was assembled which included a Gardner Laboratory Model 1053 Impact Tester, equipped with an Impact Dart. The Dart exhibited a weight of 10 pounds, and a stainless-steel dart-head with a diameter of approximately 0.575".

A solid steel block was used as a base upon which the Sample to be tested was placed, to ensure that the height measurement was corrected to the point of Impact.

The Red-coated Sample was tested first, followed by the Blue-coated Sample.

Each Sample was subjected to a series of seven (7) Impacts; each Impact was conducted on the same surface, approximately one-inch distant from the previous Impact.

Each Impact Point was identified on the Sample, immediately following the Impact, to enable subsequent macro-microscope examination.

Each Sample was subjected to the following Impacts, using the standard 10 pound Dart:

Drop Height: 6, 12, 18, 24, 30, 36, 42 inches (42" drop height is the limit of the Gardner Laboratory Impact Tester).

Following completion of seven (7) Impacts on each of the two (2) tested Samples, the Samples were subjected to macro-microscopic evaluation at a magnification of 8X, at each of the Impact points.

TEST RESULTS : There was no evidence of cracking, peeling, or edge-failure of the coating when impacted with the heavy metal dart dropped onto the coated surface of the substrate.

The Samples tested met the requirement stated by the customer when subjected to the Impact Test as described herein.