



Cambridge
materials testing limited

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CERTIFICATE OF TESTING

This Certificate of Testing signifies that

PetroGuard® Standard Primer Paste

Manufactured by

Advanced Corrosion Solutions Inc.

Has been tested by Cambridge Materials Testing Limited in accordance with the
American Water Works Association (AWWA) specification for Petroleum
And Petroleum Wax Tape Coatings for the Exterior of Connections and Fittings for
Steel Water Pipelines using the following test methods:

Flash Point by Cleveland Open Cup Tester using ASTM D92-12a

Specific Gravity using ASTM D70-09E¹

Drop Melting Point using ASTM D127-08

Petroleum Wax Content in accordance with AWWA C217-09, Section 5.2.2.4

Cone Penetration using ASTM D937-07

And meets the requirements of AWWA C217-09 Standard

Laboratory #: 636400-13

Sample #: 636400

Test Period: April 2013 – May 2013

Cambridge Materials Testing Limited

Per 
STEPHEN BROWN, QUALITY ASSURANCE

Per 
NASSIF ISKANDER, TECHNICIAN



Report For: Advanced Corrosion Solutions Inc.
6-68 Healey Road
Bolton, Ontario
L7E 5A4
Phone: 888 463 8162
Email: chris@advancedcorrosionsolutions.com

Laboratory #: 636401-13
FINAL
Report Date: May 28, 2013
Received Date: April 05, 2013
Customer P.O. #: 58

Attention: Chris Calder
Specimen: #2 - PetroGuard Standard Primer Paste

TEST REPORT

RE: TESTING OF WAX MATERIAL IDENTIFIED AS PETROGUARD STANDARD PRIMER PASTE TO DETERMINE COMPLIANCE WITH AWWA C217-09 MATERIAL REQUIREMENTS

This report is subject to the following terms and conditions: 1. This report relates only to the specimen provided and there is no representation or warranty that it applies to similar substances or materials or the bulk of which the specimen is a part. 2. The content of this report is for the information of the customer identified above only and it shall not be reprinted, published or disclosed to any other party except in full. Prior written consent from Cambridge Materials Testing Limited is required. 3. The name Cambridge Materials Testing Limited shall not be used in connection with the specimen reported on or any substance or materials similar to that specimen without the prior written consent of Cambridge Materials Testing Limited. 4. Neither Cambridge Materials Testing Limited nor any of its employees shall be responsible or held liable for any claims, loss or damages arising in consequence of reliance on this report or any default, error or omission in its preparation or the tests conducted. 5. Specimens are retained 6 months, test reports and test data are retained 7 years from date of final test report and then disposed of, unless instructed otherwise in writing. Test Report Template Revision January 2013

** Approved outsourced testing.

Cambridge Materials Testing Limited

Per Steve Brown
STEPHEN BROWN, QUALITY ASSURANCE
Per Nassif Iskander
NASSIF ISKANDER, TECHNICIAN



Laboratory #636401-13 FINAL
Advanced Corrosion Solutions Inc.

FLASH POINT BY CLEVELAND OPEN CUP TESTER

The primer was tested for flash point in accordance with ASTM D92-12b using a Koehler open cup tester (Asset #1326). The ambient barometric pressure at the time of testing was recorded to be 99.5 kPa. The flash point was then corrected and reported.

RESULTS

| Sample # | Description | Corrected Flash Point (°C) |
|----------|----------------------------------|----------------------------|
| 636401 | PetroGuard Standard Primer Paste | >150 |

Note: No flash point was observed on the primer sample.

REQUIREMENT: Minimum 65°C

CONCLUSION: Pass



SPECIFIC GRAVITY

The primer was tested for specific gravity in accordance with ASTM D70-09^{E1}.

RESULTS

| Sample # | Description | Specific Gravity |
|----------|----------------------------------|------------------|
| 636401 | PetroGuard Standard Primer Paste | 0.99 |

REQUIREMENT: 0.90 – 1.25

CONCLUSION: Pass



DROP MELTING POINT

The submitted primer sample was tested for drop melting point in accordance with ASTM D127-08. The averages of the two determinations were reported.

RESULTS

| Sample # | Description | Drop Melting Point (°C) |
|----------|----------------------------------|----------------------------|
| 636401 | PetroGuard Standard Primer Paste | 62 |

REQUIREMENT: Minimum 56°C

CONCLUSION: Pass



PETROLEUM WAX CONTENT**

The primer was tested for Petroleum Wax Content in accordance with AWWA C217-09, Section 5.2.2.4. The average of the three determinations was reported.

RESULTS

| Sample # | Description | Solvent Extractable Material (% by wt) |
|----------|----------------------------------|---|
| 636401 | PetroGuard Standard Primer Paste | 87.5 |

REQUIREMENT: Minimum 70% by wt.

CONCLUSION: Pass



CONE PENETRATION**

The submitted primer sample was tested for cone penetration in accordance with ASTM D937-07 using a penetrometer and standard cone applied to the sample for a period of 5-seconds under a load of 100-grams. The average of the three determinations were reported.

RESULTS

| Sample # | Description | Cone Penetration at 25°C (% by wt) |
|----------|----------------------------------|---------------------------------------|
| 636401 | PetroGuard Standard Primer Paste | 20.0 |

REQUIREMENT: 7.4 - 22.4

CONCLUSION: Pass