

February 21, 2024

Letter report number 103823888CRT-037a  
Project number 103823888-311

Robroy Industries  
1100 US Highway 271 South  
Gilmer, TX 75644

Subject: Follow-up test results on your steel conduits

Dear Ms. Stephanie Ellis,

Intertek is pleased to provide this letter report covering the quarterly follow-up testing on your steel PVC coated galvanized rigid steel (GRC) conduit: Perma-Cote threaded and non-threaded. The samples were received at Intertek on January 3, 2024, for Quarter 4, 2023 follow-up testing and were production samples in undamaged condition.

As part of Intertek's ETL Verified Program for PVC Coated Conduits (PVC-001), the conduits were conditioned during 200 hours as per the method defined in ASTM D 870-15(2020) (Standard Practice for Testing Water Resistance of Coatings Using Water Immersion). It is an alternative practice to ASTM D 2247 (and vice-versa).

Before and after the conditioning period, two (2) standard test methods are used to evaluate the adhesion of both the internal and external coatings.

For the internal coating, we use the standard ASTM D 3359-17: Standard Test Methods for Measuring Adhesion by Tape Test, Test Method B.

For the external coating, we use the section 3.8 of NEMA RN 1-2018: Polyvinyl-Chloride (PVC) Externally Coated Galvanized Rigid Steel Conduit and Intermediate Metal Conduit.

The immersion was performed at Intertek, located in Cortland, NY from 06-February-2024 through 14-February-2024 to the Intertek High Temperature H2O PVC Coating Adhesion Test Procedure for 200 hours in water at a temperature of 95 °C ± 5 °C. The test results are compliant with the applicable requirements of the test specification and the test results are enclosed to this letter report.

We have appreciated this opportunity to be of service to you. If there are any questions regarding this letter or if you require any other service offered by Intertek, please do not hesitate to contact us.

Sincerely,



Antoine Pelletier  
Project Engineer  
Global Cabling Products Testing













David Ayers  
Technician  
Global Cabling Products Testing



<b>Client:</b> Perma-Cote TX		<b>Project #:</b> G103823888 Quarter 4, 2023			<b>Test Start Date:</b> 1/31/2024 <b>Test End Date:</b> 2/15/2024	
<b>Specification:</b> Intertek High Temp H <sub>2</sub> O PVC Coating Adhesion Test Procedure for 200 hours in H <sub>2</sub> O at a temperature of 95 °C ± 5 °C per ASTM D 870-15(2020)					<b>Test:</b> Adhesion of PVC Coating	
Test Sample	Internal coating *		External coating **			
	Un-aged	Aged	Un-aged	Aged		
Perma-Cote Color Green Un-Threaded						
Sample 1	10	0	10	8		
Sample 2	10	10	10	10		
Sample 3	10	10	10	10		
Average	10	6.67	10	9.33		
Perma-Cote Color Green Threaded						
Sample 1	10	10	10	0		
Sample 2	10	8	10	10		
Sample 3	10	10	10	10		
Average	10	9.33	10	6.67		
	<b>Equipment Used</b>	<b>Model #</b>	<b>Control #</b>	<b>Calibration Due Date</b>		
	Hioki Voltage/ Temperature Unit	LR8510	I080	10/23/2024		
<b>Test Technician:</b>	Craig L. Williams					
<b>Date:</b>	02/15/2024					
<b>Notes:</b>	Compliant					

\* The internal coating adhesion is tested as per ASTM D 3359-17, Test Method B and is rated as in accordance with the following table.

\*\* The external coating adhesion is tested as per NEMA RN 1-2018, section 3.8 and is rated as in accordance with the following table.

Rating	Internal Coating Rating	External Coating Rating
0	 or worse	Poor
2	Worse than  but no better than 	Poor – Spotty
4	Worse than  but no better than 	Spotty – Poor
6	Worse than  but no better than 	Spotty
8	Worse than  but no better than 	Good – Spotty
10	No worse than 	Good