

February 28, 2023

Letter report number 103823888CRT-031a
Project number 103823888-311

Perma-Cote TX
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 part number 075-CON-1/2". The samples were received at Intertek on September 26, 2022, for Quarter 3, 2022 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 testing was performed at Intertek, located in Cortland, NY from February 11 through February 19, 2023 to the Intertek High Temperature H₂O PVC Coating Adhesion Test Procedure for 200 hours in water at a temperature of 95 °C ± 5 °C and are compliant with the applicable requirements of the test specification. 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



Client: Perma-Cote TX		Project #: G103823888 Quarter 3/2022			Test Start Date: 2/11/2023 Test End Date: 2/19/2023	
Specification: Intertek High Temp H ₂ O PVC Coating Adhesion Test Procedure for 200 hours in H ₂ O at a temperature of 95 °C ± 5 °C per ASTM D 870-15(2020)					Test: 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	10	10	10		
Sample 2	10	10	10	10		
Sample 3	10	10	10	10		
Average	10	10	10	10		
Perma-Cote Color Green Threaded						
Sample 1	10	8	10	9		
Sample 2	10	10	10	10		
Sample 3	10	10	10	10		
Average	10	9.33	10	9.66		
	Equipment Used		Model #	Control #	Calibration Due Date	
	Hioki Data Logger		LR8510	I080	10/13/2023	
	Test Technician:	Craig Williams				
	Date:	2/28/2023				
	Notes:	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