



20.11.2018

QUALITY CERTIFICATE

This is to certify that the following tests have been done on Colorama Egypt product PE1002RM PRIMAPOX – RM which is a polyamide cured red modified epoxy primer which is suitable for internal lining of natural gas pipelines according to API 5L2, 4th edition. The results, are indicated here below:

All Tests are done @ 25° and 50% RH

S	Test	Standard	Reading	Final result
1	Wet Film Thickness	ASTM D1186	240 microns	Pass
2	Dry Film Thickness	ASTM D1186	152 microns	Pass
3	Solid Volume	ASTM D2697	63.33%	Pass
4	Dry To Touch	ASTM D1640	1 hour	Pass
5	Recoat Interval	ASTM D1640	10 hours	Pass
6	Pot Life	ISO 9514	6 hours	Pass
7	Direct & Indirect Impact	ASTM D2794	15 Joules	Pass
8	Deformation (Bending)	ASTM D522	No Cracks	Pass
9	Adhesion (Cross Cut Test)	ASTM 3359	GT0	Pass
10	Adhesion (Pull-off Test)	ASTM D4541	4 MP	Pass
11	Water Resistance	ASTM D1735	0.001 % Loss	Pass
12	Chemical Resistance	ASTM C868	0.001 % Loss	Pass
13	Abrasion Resistance	ASTM D4060	0.002 % Loss	Pass
14	500 Hours Salt Spray test			
	Degree Of Blistering	ASTM D714	No Blistering	Pass
	Degree Of Cracking	ASTM D661	No Cracking	Pass
	Degree Of Flaking	ASTM D716	No Flaking	Pass
	Degree Of Rusting	ASTM D717	No Rusting	Pass
15	Volatile Organic Compound (VOC)	ASTM D6266	348 g/L	Pass

According to the above test results, we certify that PE1002RM PRIMAPOX – RM polyamide cured red modified epoxy primer/paint delivered to our laboratories in London by Colorama Coatings – Egypt is suitable to be used as a lining primer for Internal natural gas pipelines and complies with API 5L2, 4th edition and ISO 12944 C5I & C5M.

Lab. Chemist

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