

Polibrid 705E

Compliance with AWWA C222-08 Polyurethane Coatings for the Interior and Exterior of Steel Water Pipe and Fittings

The following test performance results were obtained in a controlled ISO 9001 Quality Approved laboratory environment. International paint makes no representation that the exhibited published test results, or any other tests, accurately represent results actually found in all field environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection, verification of performance and use of the coating(s).

Polibrid 705E is compliant with the requirements of AWWA C222-08. Laboratory testing requirements for this standard and the laboratory results obtained on Polibrid 705E are detailed below:

Test Description	Test Method	AWWA C222 requirement	Polibrid 705E Test Result
Cathodic disbondment	ASTM G95 28 days at 1.5V	< 12mm (0.5 inch) disbondment radius	8.5mm (0.336 inch) disbondment radius
Flexibility	ASTM D522	180° bend on 3 inch pipe – no cracking or delamination	passes
Impact Resistance	ASTM G14	>75 in lb	96.4 in lbs
Abrasion resistance	ASTM D4060	<100 mg weight loss per 1000 cycles	45.6 mg loss
Chemical resistance – 10% sulfuric acid	ASTM D543 Practice A, Procedure I at 70°F (21°C)	<5% weight gain/loss <5% length/width gain/loss	+ 3.4% +3.2%
Chemical resistance – 30% sodium chloride	ASTM D543 Practice A, Procedure I at 70°F (21°C)	<5% weight gain/loss <5% length/width gain/loss	+1.2% +0.3%
Chemical resistance – 30% sodium hydroxide	ASTM D543 Practice A, Procedure I at 70°F (21°C)	<5% weight gain/loss <5% length/width gain/loss	+1.0% +0.3%
Chemical resistance – #2 diesel fuel	ASTM D543 Practice A, Procedure I at 70°F (21°C)	<5% weight gain/loss <5% length/width gain/loss	+2.1% +2.7%
Dielectric strength	ASTM D149	>250 V/mil	784 V/mil
Water absorption	ASTM D570	<2%	0.2%
Hardness	ASTM D2240	>65, Shore D	67

WWM&PC Technical Operations Department
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Important note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to law) any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time and in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local International Paint representative that this data sheet is current prior to using the product.

Protective Coatings

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