

Performance Test Data for Intercure 420

Epoxy MIO Intermediate



Test Type	Test Method	Specification Details	Typical Results
Salt Spray	ISO 7253 - "Resistance to neutral salt spray (fog) @ 35°C"	1 x 150µm dft applied directly over 75µm of a zinc epoxy primer.	No film defects , and an average of 2.5mm rust creep at the scribe following 6000 hours exposure.
Salt Spray	ISO 7253 - "Resistance to neutral salt spray (fog) @ 35°C"	1 x 150µm dft applied directly over 75µm of a zinc silicate primer.	No film defects , and an average of 1.5mm rust creep at the scribe following 6000 hours exposure.
Abrasion	ASTM D4060 - "Abrasion Resistance of Coatings via the Taber Abraser"	1 x 125µm dft applied directly to Sa2.5 blasted steel.	Average of 98mg weight loss per 1000 cycles using CS10 wheels and a 1Kg loading.
Adhesion	ISO 4624 - "Pull-off test for adhesion" using portable adhesion testers	1 x 125µm dft applied directly to Sa2½ blasted steel.	Not less than 8MPa (1160psi) when using a PAT Model GM01 hydraulic adhesion tester on 5mm thick steel.
Adhesion	ISO 2409 - "Cross cut adhesion classification"	1 x 150µm dft applied directly to Sa2.5 blasted steel.	Classification 5B.
Elongation @ Break	ASTM D2370 - "Tensile & Elongation Properties of Coatings"	1 x 200µm dft "free film"	An average of 3.6% elongation of the coating is achieved prior to fracture.

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Gloss	ASTM D522 - "Mandrel Bend Test of Attached Organic Coatings" , - Conical Mandrel Test	1 x 125µm dft applied directly to Sa2.5 blasted steel.	7% (60° geometry).
Hardness	ASTM D3363 - "Film hardness by Pencil Test"	1 x 125µm dft applied directly to Sa2.5 blasted steel.	Classification 4H
Impact	ASTM D2794 - "Resistance to the Effects of Rapid Deformation (Impact)"	1 x 150µm dft applied directly to Sa2.5 blasted steel.	Direct Impact Resistance - 3.7 Joules.
Tensile Strength	ASTM D2370 - "Tensile & Elongation Properties of Coatings"	1 x 200µm dft "free film"	An average of 15MPa (2175psi) is required to achieve fracture of the coating.

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