

Typical Physical and Chemical Properties

Where applicable these tests have been conducted on cold rolled steel Q-panels that have been surface prepared to SSPC 10 (sandblasted) and spray coated with 4.0 mil DFT (dry film thickness) of epoxy primer at room temperature cured for 24 hours, followed by spray coating with Slickcoat to 4.0 mil DFT. The coated panels were cured at room temperature (minimum of 20° C) for 7 days before testing commenced. For some tests, different samples were specifically required.

PROPERTY	METHOD	RESULT
1.0 Appearance		
1.1 Visual Inspection		Smooth uniform pigmented coating
1.2 Specular Gloss at 60°F	ASTM D 523	60
2.1 Adhesion, Pull off	ASTM D4541	>400 PSI*
2.2 Adhesion, Tape test	ASTM D3359	5B ON Scale
2.3 Tensile Strength	ASTM D2370	3000 psi
2.4 Tensile, Elongation at Break	ASTM D2370	17%
2.5 Abrasion-Taber 1000 cycles	ASTM D4060	60 milligram loss
2.6 Abrasion-Taber to remove 1 mil	ASTM D4060	3000 cycles
2.7 Pencil Hardness-Scratch	ASTM D3363	2H
2.8 Pencil Hardness-Gouge	ASTM D3363	3H
2.9 Pendulum Hardness (Konig)	ASTM D4366	150± 20 sec.
2.10 Chipping Resistance	ASTM D3170	28-34 chips with diameter 1-2 mm
2.11 Static Friction Coefficient	ASTM D4518	0.11
2.12 Dynamic Friction Coefficient	ASTM D4518	0.07
2.13 Flexibility by Folding	ASTM D4145	>1T
2.14 Extrusion Impact Resistance	ASTM D2794	>0.8 meter
2.15 Intrusion Impact Resistance	ASTM D2794	>1.0 meter
2.16 Non Stick Release Adhesion	TAPPI 502	20g/inch

2.17 Subsequent Adhesion	TAPPI 502	100%
2.18 Contact Angle Water	DTM	99°
2.19 Contact Angle Glycerol	DTM	68°
2.20 Temperature Change Resistance (20 cycles)	ASTM D1211	No effect seen
2.21 Electrical Conductivity		5x10-12 mohs/cm
2.22 Temperature Service Range Continuous**	ASTM D2485	275 ± 25°F
2.23 Temperature Service Range Intermittent	ASTM D2485	450 ± 50°F
3.0 Resistance To		
3.1 Solvents	ASTM G20 Modified	See separate chart
3.2 Salts	ASTM G20 Modified	See separate chart
3.3 Acids	ASTM G20 Modified	See separate chart
3.4 Alkalies	ASTM G20 Modified	See separate chart
3.5 Miscellaneous	ASTM G20 Modified	See separate chart
3.6 3000hr Qfog Salt Spray	ASTM B117	Passes

* The Cyano-acrylate adhesive bond to the coating fails before adhesion failure of the coating.

** Abrasion resistance will reduce as temperature is increase but non-stick properties are not affected.

This information is provided to assist the specifier in the selection of an appropriate coating for an end use situation. No warranty is expressed or implied since the surface preparation, thickness of application and the environmental conditions at the time of coating are beyond our control. The onus is on the user to determine if the product is fit for purpose. Should more information be required, please contact us and we will endeavor to be of assistance.

Foundation Technologies, Inc.

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PO Box 491718 Lawrenceville, GA 30049

800.773.2368

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