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INVIRAPOXY 2.8 V.O.C. COMPARED TO HIGH SOLIDS BAKING ENAMEL

These tests were run by Coatings Research Group, Inc. The 9100 Series Baking Enamel is described as being "Designed for the office furniture and general metals coating industry."

Tests were run on light gauge steel and on heavy gauge steel panels. The Baking Enamel was already tinted and called Putty 9105-6411. INVIRAPOXY 2.8 V.O.C. was tinted to the standard color Putty SC4030P.

The purpose was to see if INVIRAPOXY 2.8 V.O.C. two-component catalyzed polyamide epoxy finish met, or exceeded, the specifications listed under physical properties. The INVIRAPOXY 2.8 V.O.C. was air-dried and the Baking Enamel was baked 30 minutes at 300 degrees F.

	Baked Enamel	INVIRApoxy	Result
Pencil Hardness	H – 2H	H-2H	Equal
ASTM D3363			
Impact Test, direct thin metal	Failed @ 20#	Passed 30#	Better
Reverse Impact	Failed @ 5#	Passed 15#	Better
ASTM D1474			
Flexibility on 1/8" mandrel test Note: The band portion of the panel should be observed under magnification.	Failed	Passed	Better
ASTM D3359			
Resistivity measured on Ransburg meter	.1 Meg. Ohms	.25 Meg. Ohms	Better
ASTM B117-73			
Salt Spray (Fog)	Passed 1000 hour exposure requirements		

Air dry INVIRApoxy is superior to Baked Enamel 300 degrees F for 30 minutes in every respect.

These tests were run after both finishes had cured on the panels for more than 7 days.

Therefore, the requirement that INVIRAPOXY applied must be as good as a baked enamel has been met since these tests show the INVIRAPOXY to be much superior to Baked Enamel #9100 Series.

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CHEMICAL RESISTANCE OF INVIRAPOXY

The following tests have been performed and recorded in our own laboratories using ASTM test method D1308.

A fully cured INVIRAPOXY film was subjected to the listed items. After 18 hours the residue was cleaned off with water.

Resistance to boiling water for 6 hours	Unaffected
Resistance to 20% Sodium Hydroxide	Unaffected
Resistance to MIBK Solvent	Unaffected
Resistance to 10% Hydrochloric Acid	Unaffected
Resistance to Ethylene Glycol	Unaffected
Resistance to Jet Fuel	Unaffected
Resistance to Gasoline	Unaffected
Resistance to Mineral or Vegetable Oils	Unaffected