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LAB TESTING OF DURACOAT SATAIC DISSIPATIVE COATINGS

The following tests were completed on Dura Coat Product's Inc. static dissipative epoxy coatings and non-static dissipative (451W2002 Conductive White Epoxy, 451W2005 Conductive Shell White Epoxy, 451W2008 Conductive Designer White Epoxy, 451W2017 Conductive Designer White Epoxy and DC450W-2001 Polar White Epoxy).

Property	Test Method	Requirement	Results
Paint Adhesion	ASTM D3359 method B	5B no tape off crosshatch	5B no tape off crosshatch
Film Hardness	ASTM D3363	H-2H pencil Eagle Turquoise	H^{+}-$2H^{-}$
Solvent Resistance	ASTM D5402	50+ rubs	100 MEK rubs
Impact Resistance	ASTM D2794	1.5X Guage	2X guage
Tabor Abrasion	ASTM D4060	10 mg loss cs10 wheels/100 cycles	8.9 mg loss
Gloss 60'	ASTM D523	See chart #2	See Chart #2
Conductivity	ASTM D257	10^{6}to10^{9} ohms/cm^{-2}	10^{7} ohm/cm^{-2}**
Flexibility	ASTM D1737 ½" cylinder	No pick off	No pick off
Color	See footnote *	Delta L,a,b +or-0.75	Delta L,a,b +or-0.20
Chemical Resistance	ASTM D1308	See chart#1 below	See chart#1 below
Salt Spray Resistance	ASTM B117	1000 hours 8 rating	1500 hours 9 rating
Humidity Resistance	ASTM D2247	1000 hours 8 rating	2000 hours 9 rating

Chart #1 Chemical Resistance

Chemical	Strength	10 minute	1 hour	3 hours	5 hours	8 hours	24 hours
Sulfuric Acid	50%	0	0	0	0	0	0
Nitric Acid	50%	0	0	0	1	1	3
Hydrofluoric Acid	50%	3	3	3	3	3	3
Ammonium Hydroxid	30%	0	0	0	0	0	0
Sodium Hydroxide	50%	0	0	0	0	0	0
Xylene	100%	0	0	0	0	0	0
Hydrogen Peroxide	30%	0	0	0	0	0	1

0 = no attack 1= surface slightly whitened 2= slightly whiter than 1 3= attacked – blistering

Chart #2 Gloss specifications

Color	Test method	Requirement	Results
451W2002 Conductive White	ASTM D523	25-35% @ 60'	31.6% @ 60'
451W2005 Conductive Shell Whi	ASTM D523	18-26% @ 60'	20.1% @ 60'
451W2007 Conductive Designer '	ASTM D523	17-23% @ 60'	17.3% @ 60'
450W2001 Polar White Epoxy	ASTM D523	80+	86.3% @ 60'

****DC450W-2001 is a non-conductive Coating and conductivity is greater than 10^{12} ohm/cm^{-2}**

* Color was matched using a 0/45' (viewing angle/illumination angle) spectrophotometer L, a, b color space, cool white fluorescent (C), 10' observer, specular excluded.