PCTT99183

ENVIROCRON® 04 Powder Coat

Highlights

PPG's Enviracryl™ and Envirocron™ powder coatings are aesthetically pleasing, produce a durable uniform finish and can be custom formulated with finishes from high gloss to low gloss, and in a variety of textures.

PPG's "World Class" Ultradurable Polyester Powder Coatings provide a combination of good physical and chemical resistance properties with excellent resistance to outdoor weathering. This extensive line of Polyester Powders is manufactured to meet the increasing requirement demands of the appliance and industrial markets. These sophisticated Polyesters are the solution to your smoothness, low-bake, durability and physical property requirements. An unsurpassed application development program enables consistently friendly use on a variety of substrates.

Product Features

Available in a wide range of colors and glosses

Excellent Exterior durability

Good chemical resistance

Specifically formulated to meet the requirements of

AAMA 2604

Technical Properties

Property	Test Method	Value
Color	_____	RAL 9005 Jet Black
Appearance		Texture
Gloss	ASTM D-523	10 - 20 @ 60°
Adhesion	ASTM D-3359	Dry: 100% (5B Pass) Wet: 100% (5B Pass) Boiling Water: 100% (5B Pass)
Hardness	ASTM D-3363	2H Pencil (Eagle)
Impact Resistance	ASTM D-2794	60 In.-lbs. Direct 40 In.-lbs. Reverse
Abrasion	ASTM D-968	Pass - Coefficient Value Min 20
Conical Mandrel	ASTM D-522	1/8" - No Cracking
Salt Spray	ASTM B-117	3000 Hrs. Pass Blister Rating - 8 Minimum Scribe Rating - 7 Minimum
Humidity	ASTM D-2247	3000 Hrs. Pass Blister Rating - 8 Minimum

Film Properties were determined using 2.0 - 3.0 mils powder film over Alodine (chromated aluminum) test panels.

Application Data

Application Type:	Electrostatic Spray
Recommended Bake:	10 Minutes at 375 °F Metal Temperature See Cure Curve PCT-050
Specific Gravity:	1.69 ± .05
Theoretical Coverage:	113 Sq. Ft. per pound at 1.0 mil
Shelf Life from Date of Manufacture (@ 40-60% RH):	77 °F Maximum - 12 Months

PPG recommends that all material be used in FIFO order (first in - first out). Materials that exceed the recommended shelf life should be tested prior to use.

Technical Properties

Property	Test Method	Value
Weathering		
South Florida Exposure	Minimum 5 Years	Pass
EMMAQUA NTW	Minimum 1450 MJ	Pass
Chalk Resistance	ASTM D4214A	Pass - No more than 8
Gloss Retention	ASTM D523	Pass - Minimum 30%
Color Retention	ASTM D2244	Pass - < 5.0 DE
Resistance to Erosion	ASTM D224	Pass - Less than 10% film loss
Chemical Resistance		
Muriatic Acid	15 minute spot test	Pass: No color change, no loss of adhesion, no blistering or no visual appearance change
Mortar	24 hour pat test	
Nitric Acid	30 minute vapor test	
Detergent Immersion	38C for 72 hours	
Window Cleaner	10 drops for 24 hours	