



UL Component Recognitions for PPG Industrial Powder Coatings



UL1332: Standard for Organic Coatings for Steel Enclosures for Outdoor Use Electrical Equipment (D TOV2)

Strongsville, OH & Greensboro, NC • File No. MH6892

Polyester-TGIC, Standard Durable

Products Tested: ENVIROCRON® PCT Coatings

Volume 9	Volume 11	Cold-Rolled Steel	Hot-Rolled Steel	Galvannealed "Generic"	G40 & G60 Galvanized
Section 3	Section 4	5-stage iron phosphate ⁽¹⁾	•	•	•
		5-stage zinc phosphate ⁽¹⁾	•	•	•
		7-stage zinc phosphate ⁽¹⁾	•	•	•
		7-stage zinc phosphate with primer (epoxy) ⁽²⁾	•	•	•
Section 7	Section 6	Zirconium ZB 4200SM/SR ⁽³⁾	•	•	•
		Zirconium XB 4000SM/SR ⁽³⁾	Zirconium XB 4000SM/SR ⁽³⁾	Zirconium XB 4000SM/SR ⁽³⁾	•
•	Section 2	•	•	•	5-stage iron phosphate ⁽¹⁾

Polyester-TGIC, Ultra-Durable (Super Durable)

Products Tested: Envirocron PCT Coatings

Volume 9	Volume 11	Cold-Rolled Steel	Hot-Rolled Steel	Galvannealed "Generic"	G40 & G60 Galvanized
Section 6	Section 5	Zirconium XB 4200SM/SR ⁽³⁾	•	•	•
		Zirconium XB 4000SM/SR ⁽³⁾	•	•	•
Section 8	Section 7	7-stage zinc phosphate with primer (epoxy) ⁽⁴⁾	•	•	•

Epoxy-Polyester Hybrid, Interior

Products Tested: Envirocron PCF Coatings

Volume 9	Volume 11	Cold-Rolled Steel	Hot-Rolled Steel	Galvannealed "Generic"	G40 & G60 Galvanized
Section 4	•	5-stage iron phosphate ⁽¹⁾	•	•	•

(1) 1.4 mils, 20 min. @ 375° F

(3) 2.0 - 3.0 mils, 20 min. @ 375° F

(2) 3.0 - 4.0 mils, 20 min. @ 375° F

(4) Primer: 1.5 mils, 50% partial bake; Topcoat: 2.0 mils, 20 min. @ 350° F

• Indicates product not tested

Gainesville, TX • File No. MH17729
and Greensboro, NC • File No. MH6892

Polyester-TGIC, Standard Durable and Polyester-TGIC Free, Standard Durable

Products Tested: Envirocron PCT Coatings and Envirocron PCS Coatings

Volume 1		Cold-Rolled Steel	Hot-Rolled Steel	G40 & G60 Galvanized	A60 per ASTM A525* Hot-Dip Galvannealed
Section 1	Page 2	4-stage iron phosphate	4-stage iron phosphate	•	•
		5-stage iron phosphate	5-stage iron phosphate	•	•
		7-stage iron phosphate	7-stage iron phosphate	•	7-stage iron phosphate
		7-stage zinc phosphate	7-stage zinc phosphate	•	•
Section 1	Page 2	4-stage "nano" / zirconium	•	•	•
		5-stage "nano" / zirconium	•	•	•
		7-stage "nano" / zirconium	7-stage "nano" / zirconium	•	•

Polyester-TGIC, Ultra-Durable (Super Durable) and Polyester-TGIC Free, Ultra-Durable (Super Durable)

Products Tested: Envirocron PCT Coatings and Envirocron PCS Coatings

Volume 1		Cold-Rolled Steel	Hot-Rolled Steel	G40 & G60 Galvanized	A60 per ASTM A525* Hot-Dip Galvannealed
Section 1	Page 2	4-stage iron phosphate	4-stage iron phosphate	•	•
		5-stage iron phosphate	5-stage iron phosphate	•	•
		7-stage iron phosphate	7-stage iron phosphate	•	7-stage iron phosphate
		7-stage zinc phosphate	7-stage zinc phosphate	•	•
Section 1	Page 2	4-stage "nano" / zirconium	•	•	•
		5-stage "nano" / zirconium	•	•	•
		7-stage "nano" / zirconium	7-stage "nano" / zirconium	•	•

Epoxy, Interior

Products Tested: Envirocron PCM Coatings

Volume 1		Cold-Rolled Steel	Hot-Rolled Steel	G40 & G60 Galvanized	A60 per ASTM A525* Hot-Dip Galvannealed
Section 1	Page 2A	4-stage iron phosphate	4-stage iron phosphate	•	•
		5-stage iron phosphate	5-stage iron phosphate	•	•
		7-stage iron phosphate	7-stage iron phosphate	•	•
		7-stage zinc phosphate	7-stage zinc phosphate	•	•
		4-stage "nano" / zirconium	4-stage "nano" / zirconium	•	•
		5-stage "nano" / zirconium	5-stage "nano" / zirconium	•	•
		7-stage "nano" / zirconium	7-stage "nano" / zirconium	•	•

* ASTM A525 is now A653
2.0-4.0 mils, 10 min. @ 340°-400° F
Rough texture only: 3.0-4.0 mils

• Indicates product not tested

Polyester-TGIC, Standard Durable

Volume 1		Cold-Rolled Steel	Hot-Rolled Steel	G40 & G60 Galvanized
Section 2	Page 1	5-stage iron phosphate ⁽¹⁾	•	•
Section 2	Page 1	8-stage zirconium ⁽²⁾	•	•
Section 2	Page 2	8-stage zirconium ⁽²⁾	•	•

Polyester-TGIC, Ultra-Durable (Super Durable)

Volume 1		Cold-Rolled Steel	Hot-Rolled Steel	G40 & G60 Galvanized
Section 3	Page 1	•	•	5-stage iron phosphate ⁽³⁾

Polyester-Isocyanate

Volume 1		Cold-Rolled Steel	Hot-Rolled Steel	G40 & G60 Galvanized
Section 1	Page 1	5-stage iron phosphate ⁽⁴⁾	•	•

Polyester-Primid, Standard Durable

Volume 1		Cold-Rolled Steel	Hot-Rolled Steel	G40 & G60 Galvanized
Section 5	Page 1	•	•	5-stage oxide-based ⁽⁵⁾
Section 4	Page 1	•	•	"Nano" ⁽⁶⁾

Polyester-Primid, Super Durable

Volume 1		Cold-Rolled Steel	Hot-Rolled Steel	G40 & G60 Galvanized
Section 6	Page 2	5-stage "nano" ⁽⁷⁾	•	5-stage "nano" ⁽⁷⁾
		7-stage "nano" ⁽⁷⁾	•	7-stage "nano" ⁽⁷⁾

(1) 1.5 mils minimum, 15 min. @ 400°F; Section 1, Page 1

(2) 1.5 mils minimum, 10-20 min. @ 325-400°F

(3) 2.0 mils minimum, 15 min. @ 350°F

(4) 1.8 mils minimum, 15 min. @ 400°F

(5) 1.5 mils minimum, 10 min. @ 350°F

(6) 1.5 mils minimum, 15 min. @ 350°F

(7) 2.5 mils minimum, 10-20 min @ 350-400°F

• Indicates product not tested

