



TECHNICAL BULLETIN

Highlights

POWERCRON® 6200HE is the latest enhancement of PPG's 6th generation lead-free cationic epoxy electrocoat.

Compared to earlier generation cationic epoxies, POWERCRON® 6200HE benefits include:

- Excellent corrosion resistance
 - Including on sharp edges
 - On various substrates
- Environmental advantages
 - No lead or chrome
 - Formulated to respond to REACH legislation
 - Reduced BOD and COD in the effluents
- Performance advantages
 - Broad film build capability
 - Smooth film appearance
 - Excellent chemical resistance
- Economical advantages
 - Lower dry film density
 - Reduced weight loss
 - Reduced cure temperature

Technical Properties

Property	Test Method	Performance
Film Thickness	---	12 – 40+ µm
Gloss - 60 Degree	ISO 2813	70 – 85 %
Pencil Hardness	ASTM D3363	4H+
Cross cut adhesion	ISO 2409	Gt0
Direct Impact	ISO 6272-1	1 Kg / 50 cm
Erichsen cupping test	ISO 1520	4 – 8 mm*
Conical bending test	ISO 6860	0 – 30 mm*
Humidity	ISO 6270-2	> 500 Hours
Water Immersion	ISO 2812-2	> 250 Hours
Edge coverage	Ford BI 127-01	0 – 1 red spot
Throwpower	Ford BI 120-02	60 - 65 %

Cold Rolled Steel Lab Panels, Zinc Phosphate Pretreatment UMA 180028-26S/W42/OC
20 µm Average Film Thickness, Cure 20 Minutes @ 155°C

* Depending on paste

Test	Method	Delamination ISO 4628-8
Salt Spray - 500 Hours	ISO 9227	0 – 0.5 mm
Salt Spray - 1000 Hours	ISO 9227	0.5 – 1 mm
PV 1210 - VW – 60 cycles	PV1210	1 – 1.5 mm
VDA – 10 cycles	ISO 11997-1 cycle B	1 – 1.5 mm
CCT1 Nissan – 150 cycles	NES M0007-33-CCT1	1.5 – 2 mm
SCAB Ford – 50 cycles	BI 123-01	0.5 – 1 mm

Test	Method	Delamination Renault 02-00-005
ECC1 – Renault – 42 Cycles	D17 2028	3 – 3.5 mm total creep

Cold Rolled Steel Lab Panels, Zinc Phosphate Pretreatment UMA 180028-26S/W42/OC
20 µm Average Film Thickness, Cure 20 Minutes @ 155°C metal

Commercial Uses

- Automotive parts & Accessories
- Agriculture Equipment
- Construction Equipment
- Wheels
- Switchgear
- Trailers

Application Data

Standard Bake: From: 20 Minutes at 155°C Metal Temperature
VOC (ISO 11890-1): 50 – 80 g/l (method 3 – minus water)
 25 – 55 g/l (method 4 – minus water and exempt components)

Approvals

	<u>Specification</u>	<u>Status</u>
Audi	QP-F110	Approved
BMW	GS 97019	Approved
Daimler	DBL 7292.21	Approved
General Motors	GMW 3008	Approved
Renault	47-01-000 / Cod. As2/V/FO	Approved

The technical data presented in this bulletin is based upon information believed to be currently accurate. However, no guarantees of accuracy, comprehensiveness, or performance are given or implied. Continuous improvements in coatings technology may cause future technical data to vary from what is in the bulletin. Contact your PPG representative for the most up-to-date information.

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