

BPCOAT LTC

Low Temp. Curing Powder Coating



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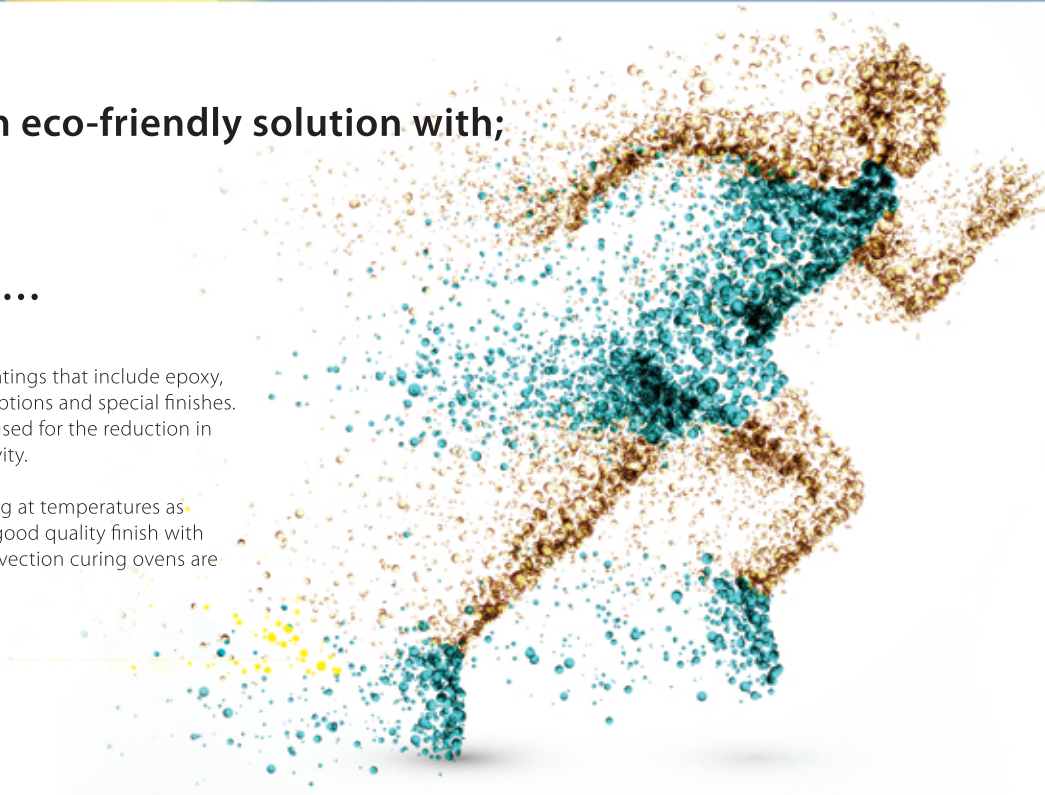
Low Temp. Curing Powder Coating



BPCOAT-LTC Series is an eco-friendly solution with;
Higher energy savings,
Better productivity,
Lower production cost,...

BPCOAT-LTC Series are low curing powder coatings that include epoxy, hybrid, polyester (TGIC) with a range of gloss options and special finishes. Low temperature curing powder coatings are used for the reduction in energy consumption, and increase in productivity.

With the new technology, this series offer curing at temperatures as low as 130°C- 140°C- 160°C in less time with a good quality finish with much less orange-peel effect and pinhole. Convection curing ovens are normally used to cure these coatings.



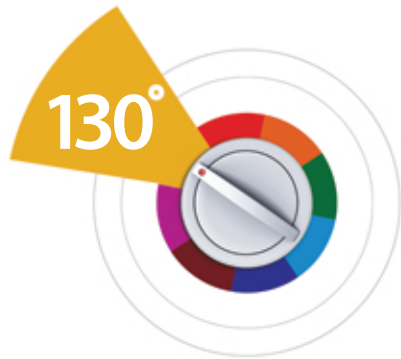
BPCOAT-LTC Series with Temperature Options;

BPCOAT-LTC Series offers different choices of curing at different temperatures from 130 to 160°C and curing times ranging from 7-15 minutes;

Type (Chemistry)	Cure Range (Temp. Of Metal)
Pure Epoxy	160°C; 7 minutes 140°C; 10 minutes
Hybrid (Epoxy-Polyester)	130°C; 15 minutes 160°C; 7 minutes
Polyester (TGIC)	130°C; 15 minutes 140°C; 7 minutes

Technical Properties			
Tests Done	Units(Methods)	Value for Metal Temperature130-140 °C/10 min	Value for Metal Temperature160 °C/7 min
Surface Appearance	-----	Various-Per Sample	Various-Per Sample
Color	-----	No Restrictions	No Restrictions
Specific Gravity	(EN ISO 8130-3)	1,2-1,8 (Based on Color/Gloss)	1,2-1,8 (Based on Color/Gloss)
Gloss	(EN ISO 2813 60 °)	85-98 and restrictions in low gloss	85-95 and restrictions in low gloss
Hardness	Buchholz (EN ISO 2815)	<90	<90
Flowing	SAMES 100(EN ISO 8130-5)	100-140	100-140
Cupping Test	(EN ISO 1520),mm	6 mm	6mm
Impact	(EN ISO 6272) kg.cm	60-80 kg.cm	60-80 kg.cm
Adhesion	(EN ISO 2409)	Excellent. Gt = 0	Excellent. Gt = 0
Cylindrical mandrel	(EN ISO 1519)	>5 mm	>5 mm
Salt Spray	(EN ISO 7253)	300-400 Hour. No blistering	300-400 Hour. No blistering
Yellowing	Delta E	no yellowing	no yellowing
UV Resistance	Delta E	depend on type	depend on type

*All tests are done on steel and aluminium panels, chemically treated



Benefits of a Lower Curing Temperature;

- Approximate 15 to 25% reduction in energy costs with lower oven temperatures and direct saving in oil or gas consumption
- Allowing variable for different applications and coat heat sensitive objects
- Increased productivity and faster line speeds with faster cure rates
- Can be applied for the parts of different thickness
- Wide range of colors
- No risk of yellowing during baking

