

POWERCOAT

POWDER COATING



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Elite Paint

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PROFILE

POWERCOAT Powder Coatings are a range of products which are made of special resins and other ingredients that imparts tough, long durable and highly resistant to aggressive environment and weather condition. Their application is unlike conventional paints.

TYPES OF PRODUCT

POWERCOAT is available in four different Categories and each has unique quality parameters meeting user's varied needs: These are:

- Epoxy polyesters (Hybrid)
- Pure Epoxy
- Pure Polyester
- Fusion Bonded Epoxy

KEY BENEFITS

- Tough and abrasion resistance
- Excellent corrosion resistance
- Good chemical resistance
- Excellent adhesion
- Durable long life

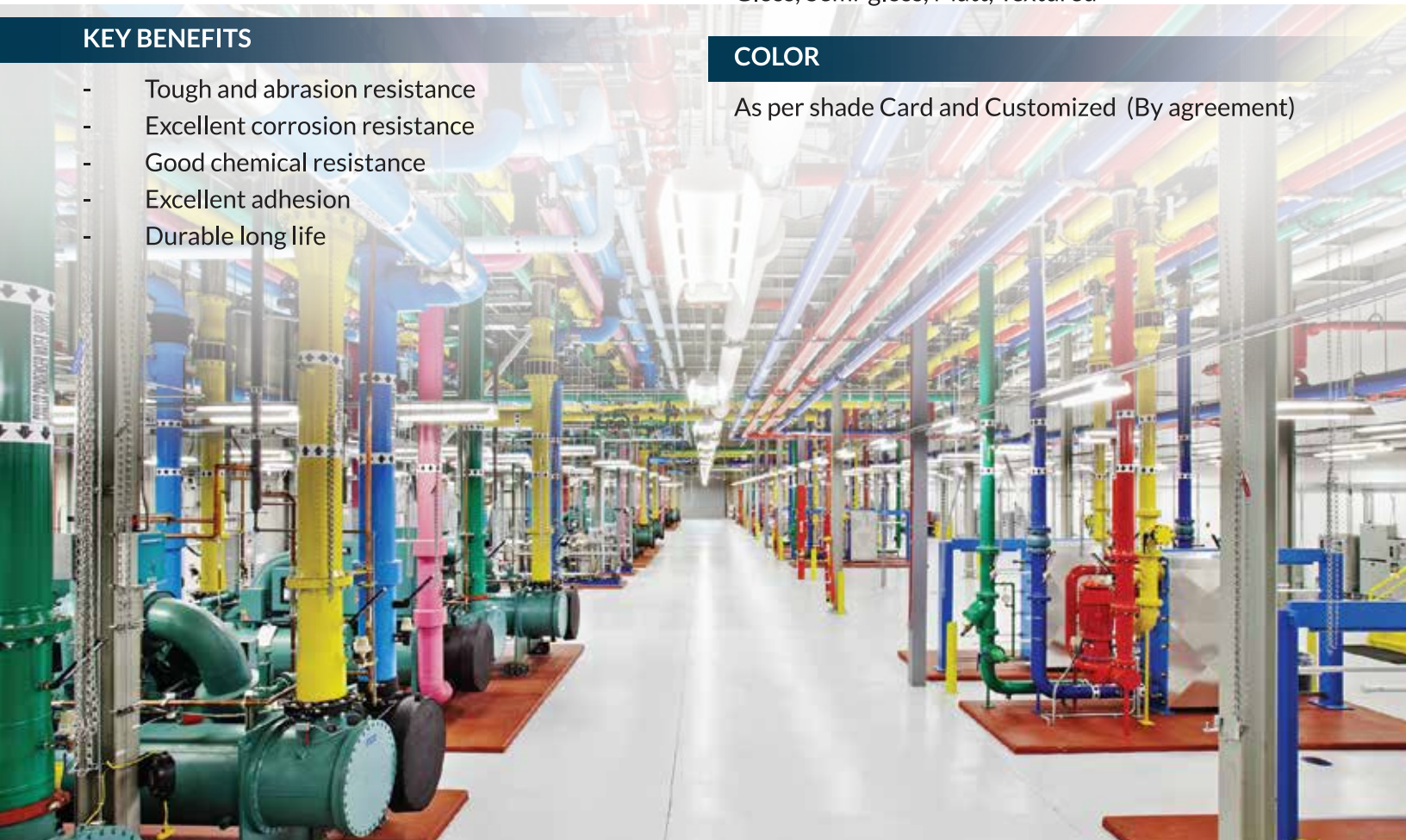


FINISH

Gloss, Semi-gloss, Matt, Textured

COLOR

As per shade Card and Customized (By agreement)

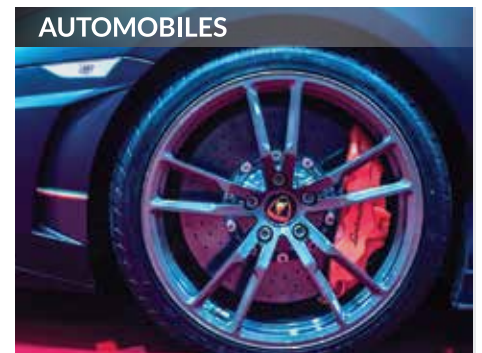
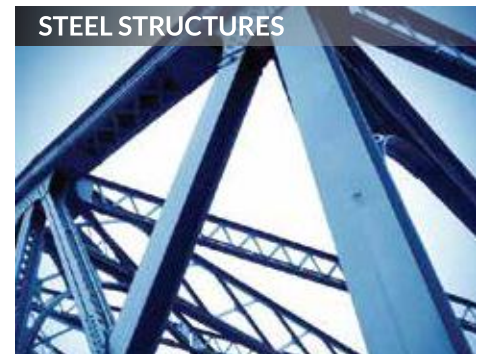
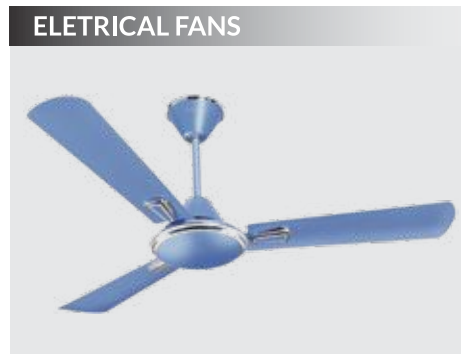


USAGE AREA

On all suitably steel structures exposed to chemical and industrial environment in fertilizer, refineries, petrochemical, paper and pulp plants, garment factories, power station, food and pharmaceutical plants, machine tools, steel furniture, electrical fans, transformers, gas cylinders, refrigerators, steel rods and angles and a lot more.

POWDER PROPERTIES

Chemistry	: Thermosetting synthetic resins & high quality pigments.
Application	: Corona electrostatic spray required. The system can be modified for Tribo application as required.
Coating thickness	: Depending on covering power and shade, general recommendation is 50 - 70 microns (μm).
Gloss (ASTM 523)	: A range from matt (10%) to Gloss (>85%); also textured finish.
Specific gravity	: 1.40 - 1.70 depending on color.
Coverage	: 10 - 14 m^2/kg at 60 microns film thickness.
Storage & shelf life	: When stored in a cool (<25°C), dry environment: 12 months
Curing schedule	: For glossy : 10 minutes at 180° Celsius (Object temperature) For semi-glossy, structured, textured: 10 minutes at 200° celsius (object temperature)



PRETREATMENT

To ensure maximum adhesion the substrate must be thoroughly clean, free from grease, oil, rust, mill scale or any other contaminant. Cleaning may be carried out either by shot blasting, solvent or chemical degreasing. For application where high corrosion or chemical resistance is required the substrate should be chemically treated prior to powder coating, typically :

Ferrous substrates	Iron or zinc phosphate
Zinc coated steel	Zinc phosphate or chromate conversion
Aluminum	Chromate conversion

APPLICATION METHOD

Elite Power Coat Powder coating is to be applied with a corona electrostatic powder spray gun at between 60kv – 90kV.

TECHNICAL DATA

Unless otherwise specified, all tests were carried out under laboratory conditions on 0.8mm degreased and zinc phosphated steel panels. A powder coating DFT of 60-70 microns was used.

TEST	METHOD	RESULT
Pencil Hardness	: (GB/T6739-1996)	pass
Flexibility	: ASTM D522 Cylindrical Mandrel	pass >5mm
Adhesion	ASTM D3359 Crosshatch	pass Gt0
Impact	: GBT1732---79	>50kg-cm(N)
Chemical resistance	: Resistance to most acids, alkalis and oils.	

STORAGE

Product should be stored at temperatures below 25°C, in a dry area away from any heat source.

HEALTH & SAFETY (MSDS):

Spray in a well ventilated place. For painting in a place with insufficient ventilation, wear suitable respiratory mask. Avoid contact with eyes & use protective glass where there is chance of splashes. In the event of accidental splash on the eye, wash eyes with sufficient water and obtain doctor's suggestion.

The information given in this manual is of Elite Paint's best knowledge. However, no guarantee of results is implied since conditions of use are beyond Elite's control. Elite Paint shall not be liable for any consequential loss or damage arising out of such use.

N.B: For technical service, contact our nearest sales centre.





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