

Sharpcoating Product Specifications – Pure Epoxy Powders.

Substrates

Aluminium Cold rolled Cold Annealed (CRCA)Steel

Surface Preparation

For normal applications – chemical cleaning and surface treatment.

For Aluminium – Achromatising. For Steel – Iron Phosphate / Low Wt. Zinc phosphate.

Powder Charactristics

Sieve Analysis:

(By Alpine Air Jet Sieve A 200 L.S)

Below 32 microns	42 ± 3 %
Below 90 microns	>99%
Below 125 microns	100%

Performance will vary with colour, baking schedule, substrate type and thickness. The following are typical performance properties when White or Off White Polyester Powder Coatings are applied to chemically cleaned and surface treated light guage metal substrate. We suggest each proposed substrate be tested to confirm acceptability.

Performance Properties

Physical Tests:

Туре	Pure Epoxy
Colour	In desired shades
Gloss @ 60°	Matt : 0-20% Semiglossy: 45 – 65% Glossy: 90
Finish	Available in Smooth, Texture and finishes.
Hardness (Pencil)	H to 2H
Flexibility	Passes 6.25 mm
Adhesion (cross hatch tape test)	Excellent. GT-0 (1mm squares)
Impact (Direct / Reverse)	100 Kg.cm

Applications Conditions

Application Method:

Electrostatic Powder Spray -40 to – 120 KV (Kilovolt)

Film Thickness: For normal usage 50 – 60 microns.

Curing Schedule: 180°C for 10 to 12 minutes (Object Temp.)

Specific Gravity:

1.25 - 1.8 (Depending upon colour).

Theoretical Coverage:

12 Sq.meters per Kg. At a typical specific gravity of 1.60, and at 50 microns dry film thickness assuming 100% application efficiency.

Storage:

Product has shelf life of 6 months at 25°C and Relative Humidity of 50%. Cooler temperatures and lower humidity are recommended.

Accelerated Tests:

<u>Humidity</u>: 1000Hrs. No blisters or other failures.

<u>5% Salt Spray :</u> 1000 Hrs. No face rust, 3mm creepage from scribe. (On CRCA steel, chemically treated)

<u>Water Immrsion :</u> 500Hrs. @ 49°C in Distilled water. No blistering or other changes.

<u>Overbake Resistance :</u> Very slight discolouration and no lowering of gloss at 100% overbake.

Exterior Durability : Excellent.



Chemical Resistance Tests:

Epoxy Powder Coatings are highly resistant to Wide variety of solvents and chemicals.

Alcohol	Ketchup
Ammonia 10%	Lemon Juice
Antifreeze	Lipstick
Battery Acid	Mayonnaise
Bleach	Nail Polish Remover
Detergent 1%	Paint Brush Cleaner
Detergent 5%	Vinegar
Grape Juice	

Typical Applications

Dielectric Applications, Wire Goods (Baskets), Electrical Industry Switch Gears, Laboratory Furniture, Machine Computers, Battery Covers and Trays, etc.

The data given herein is meant to serve only as a guide to user. The customers are advised to evaluate the product for their end use. Sharpcoating Paints do not assume any responsibility with regard to accuracy or reproducibility of this data as the paint film performance largely depends upon surface preparation and application conditions which may very from customer to customer and is beyond our control.

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