SINCE 1974

Rapid Coat
POWDER COATINGS

HAPA
High Adhesion Polymer Alloy

Thermoplastic Powder Coating

Strength

- 45 Years of experience in the plastic industry
- Capability to produce for very demanding and challenging applications.
- R&D / Analytical resources which help to find solution to improve production and product quality.
- We offer powder in different applications such as Automotive & Transportation, Fencing, Furniture, Wires etc.

Product Benefits

- Excellent adhesion on metal
- Chemical & Corrosion Resistance
- Outdoor & Indoor Stability
- No cracking or peeling
- Color Stability over the time
- Cryogenic Thermoplastic Coating Powder are available in wide range of color in different base polymers such as Polyethylene, Polyamide, Polypropylene and EVA etc.

Besides traditional corrosion protection systems such as liquid paints or thermoset powders, thermoplastic powder coatings offer many advantages for applicators as well as end users, in temperate and extreme environments.

Thermoplastic powder coatings allow to build a relatively thick. Non-porous film with excellent impact and chemical resistance all in one step.

Our **HAPA** powder are designed for toughness and chip resistance, without a primer. Applied as a single layer, fulfil the most demanding corrosion protection requirements: from heavy-duty industrial environments to offshore needs. **HAPA** are up to the challenge.

HAPA High Adhesion Polymer Alloy

Outdoor Fencing and Furniture

Outdoor furniture is extremely vulnerable to corrosion caused by acid rain, air pollution, road salt, large temperature variations, condensation and chemical cleaners as well as fouling by animals in urban areas. Damage is even more severe in coastal regions, where sun, salt, wind and humidity attack the coated item very aggressively. The lower part of the furniture is particularly exposed to a high salt environment and fouling from animals; the coated furniture must also withstand high mechanical stress.

Features

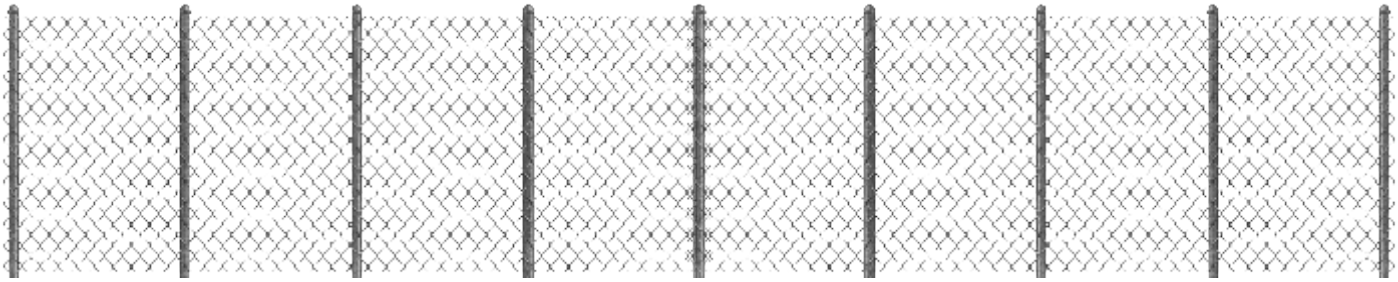
- Resistance to all climate conditions, no corrosion even on damaged parts
- High impact and abrasion resistance
- UV stability
- Excellent chemical resistance
- Electrical insulation
- Maintenance free

Appliance & Wirework

Whether for refrigerator shelves or kitchenware, dishwasher baskets or freezer evaporation trays, HAPA powder provides the coating solution. For external wirework, such as protective grilles, mesh panelling or garden products our thermoplastic powder coatings deliver outstanding longevity.

Features

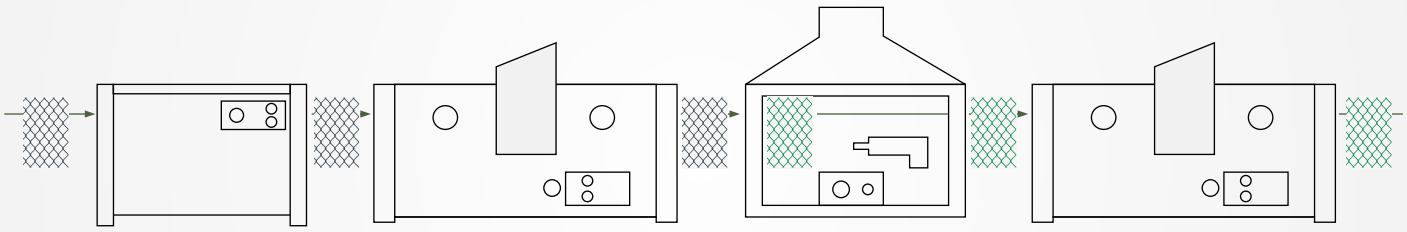
- Easy to apply and economical
- Better coating coverage
- No cracking or peeling
- Food and water contact compliant
- Enhanced temperature resistance
- Wide colour selection and attractive finish



How Do You Apply Thermoplastic Coatings?

Our powder can be applied using Electrostatic Spray Coating & Fluidised Bed Coating method.

Electrostatic Spray Coating



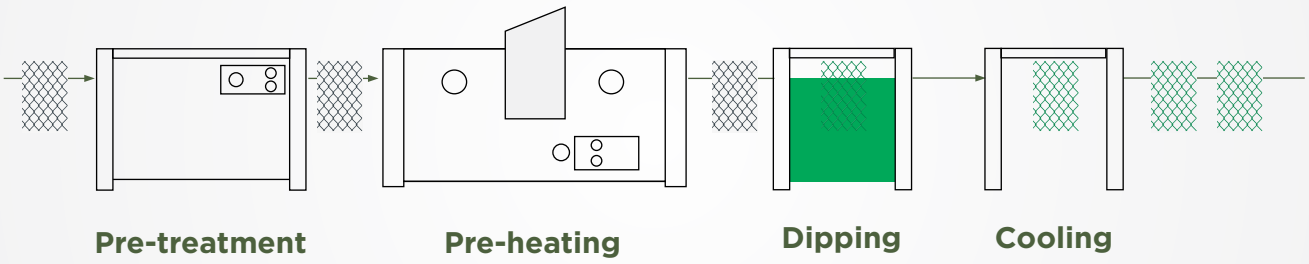
Method to Apply

Our electrostatic range of cryogenically-grinded powders are fine enough to be electrically charged and sprayed on to earthed metal items. The metals items are then placed in an oven and heated until the powders melts. The item is then cooled to leave a high-quality coating.

Advantages of Electrostatic Coating

- Good control over powder deposition
- Partial coating can be achieved
- No cross linking risk compared to thermoset powder
- Small powder stock required.
- Shorter time to fuse powder.

Fluidised Bed Coating



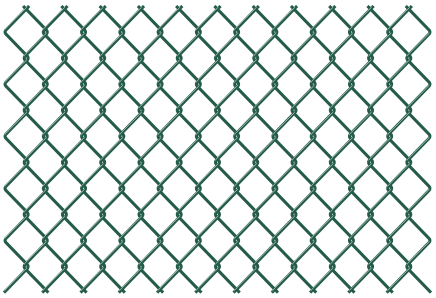
Method to Apply

Our fluidised bed powders behave like a liquid when pressurised air is allowed to bubble up through it. A metal item, heated to the correct temperature, is then completely immersed into this fluidised bed. The powder melts on contact with the metal and the item is then lifted out of the fluidised bed. The item is then cooled to leave a high-quality coating.

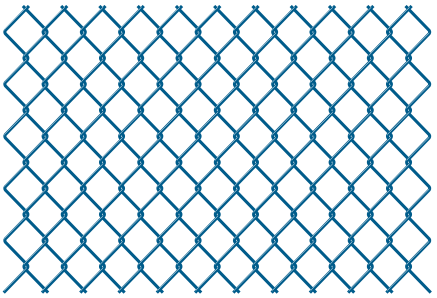
Advantages of Electrostatic Coating

- External & Internal coating in single operation.
- Uniform coating, even on complex parts.
- Higher productivity.
- Easy process to apply coating.
- Very little powder wasted.

Available Shades



RAL 6005



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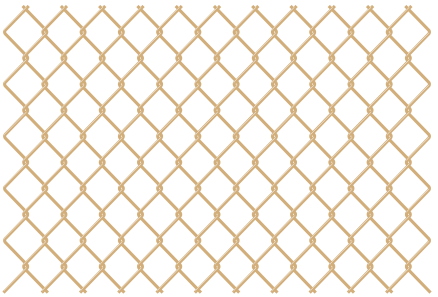

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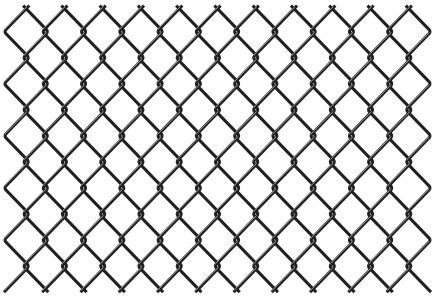

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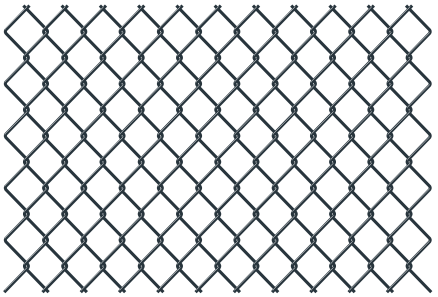

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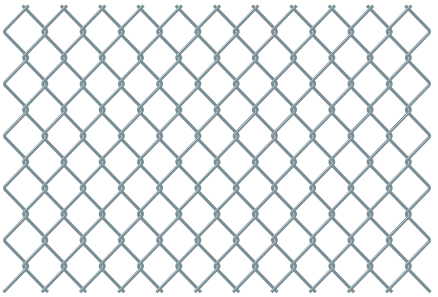


RAL 7046

Technical Specifications

	Test Method	Electrostatic Spray Grade	Fluidised Bed Grade
Recommended Coating Thickness	-	300-500 microns	300-750 microns
Surface Finish	-	Smooth & Glossy	
Gloss (Angle 60°)	ASTM D523	80±2	
Abrasion Resistance (Taber)	ASTM D4060 (mg loss)	15-20	
Salt Spray Resistance	ASTM B-117-73	No Loss of Adhesion	
Chemical Resistance	Dilute Acids	Good	
	Dilute Alkali	Good	
	Salt	Good	
Weathering Resistance	QUV (1000HRS) ASTM G154	No change in colour (ΔE <1), or loss of gloss <20%.	
	Outdoor (2years)	No change in colour (ΔE <2), or loss of gloss <50%.	

ABOUT US

Rapid Engineering Co. Pvt. Ltd. started operations in **1974** and primarily produces thermoplastic and thermosetting powder coatings. The company has **two plants located in Sahibabad, Uttar Pradesh** and **Noida, Uttar Pradesh, India.**

In addition, the company has warehouses cum sales offices in **New Delhi, Mumbai, Pune & Bangalore.** The company is also exporting its products to 35+ countries worldwide. Rapid Engineering has been awarded the **'Recognized One Star Export House'** certificate by the Government of India in recognition of its exports track record.

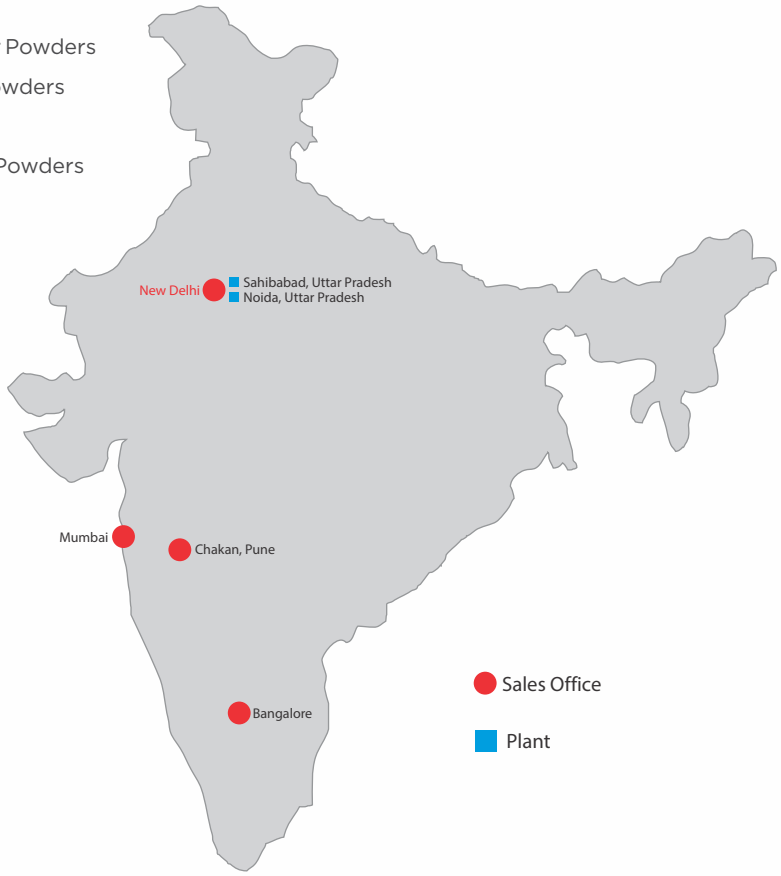
Since 2001 the company is ISO certified and is currently compliant with **ISO 9001:2015 Quality Certificate No. TUV99 100 16731 from TUV SUD Management Services GMBH.**

Rapid's Powders are **Qualicoat, Switzerland: Class 1 and Class 2 approved. Class 1 Approval No. P-1419: Class 2 Approval No. P-1504:**

In 2019, Rapid Polymers (A Division of Rapid Engineering Co. Pvt. Ltd.) was formed to manufacture plastic masterbatches and cryogenically pulverised plastic powders.

Rapid's range of products includes:

1. Thermosetting Epoxy / Polyester Powders
2. Thermoplastic Plastic Coating Powders
3. Plastic Masterbatches
4. Cryogenically Pulverised Plastic Powders



Rapid Coat POWDER COATINGS

QUALICOAT

CRISIL A Standard & Poor's Company

GOVERNMENT OF INDIA RECOGNIZED EXPORT HOUSE

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