

Rapid Coat
POWDER COATINGS



**High
Adhesion
Polymer
Alloy
(HAPA)**

Product Features

Mechanical Properties

- Better Impact Strength than Powder Coating
- Better Abrasion Resistance
- No Cracking and Peeling

Outdoor Durability

- No loss of adhesion after 10000+ Hrs Salt Spray Testing.
- No blistering, cracking and corrosion found.
- Negligible under-film corrosion from scribe after 1000 Hrs.
- No significant change in Colour and Gloss after 2000 Hrs QUV Testing

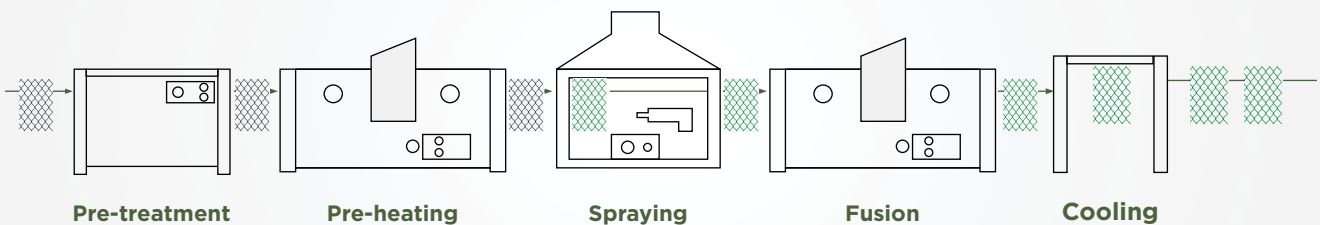
Surface Properties

- Glossy and Smooth Surface
- No Pinhole & Craters on surface
- Uniform & Consistent Finish

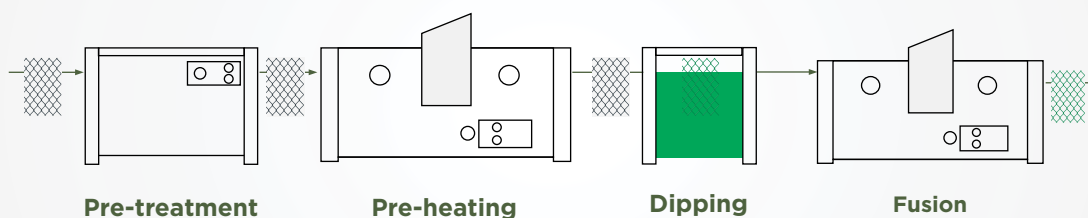
Pre-Treatment

- Metal must be corrosion and rust free.
- Mild steel must be solvent degreased then either grit blasted or phosphated.
- Galvanized steel should be either grit blasted using fine grit or phosphated.
- Aluminium should be degreased to remove lubricants and processing soaps.

Electrostatic Spray Coating



Fluidized Bed Coating



Fencing

Fencing is vulnerable to corrosion caused by acid rain, air pollution, road salt, large temperature variations, condensation. Damage is even more severe in coastal regions, where sun, salt, wind and humidity attack the coated item very aggressively. HAPA is specially designed for fence coating which offers excellent durability and resistance to corrosion, abrasion and UV radiation.



Features

- Resistance To All Climate Conditions,
- No Corrosion Even On Damaged Parts
- Excellent Adhesion On Bare & Galvanized Metals
- High Impact And Abrasion Resistance
- UV Resistance
- No Primer Required
- Electrical Insulation
- Maintenance Free



Common Colors Used

RAL
6005

RAL
7021

RAL
1001

RAL
5015

RAL
9005

& Many
More

*These colors are representative in nature and actual coating may differ from the shown colors above as it depends upon the substrate, coating thickness, application methods and curing characteristics.

Construction

HAPA Powder offers excellent durability and resistance to corrosion, abrasion, chemicals, and UV radiation. This makes them suitable for outdoor applications where the coated surface are exposed to harsh environmental conditions. It can be applied to various construction materials, including steel, aluminium, and galvanized surface. It provides a uniform and consistent finish, regardless of the substrate's shape or complexity.



Features

- Excellent Adhesion To Metal
- Provide Long Life To Coated Surface
- UV Resistance
- Electrical Insulation
- Good Impact Resistance
- High Abrasion Resistance

Applications

- Coating Bridges / Steel Beams
- Public Transport Structure
- Manhole Covers
- Pipes / Conduits
- Railings



Common Colors Used

RAL
3020

RAL
9005

RAL
1016

RAL
6005

RAL
2004

& Many
More

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Automotive

HAPA thermoplastic powder coating is also used in the automotive industry for various applications. It offers several advantages over traditional liquid coatings, making it a popular choice for automotive components. Below are some key aspects and benefits of thermoplastic powder coating in automotive applications.



Features

- Good Impact Resistance
- Anti - Skid Property
- RoHS Compliant
- Electrical Insulation
- High Flexibility
- Long Lasting Color Stability

Applications

- Bus/Metro Handrail
- Battery Box
- Spring
- Chassis
- Fuel Tank Pipe



Common Colors Used

RAL
7046

RAL
7016

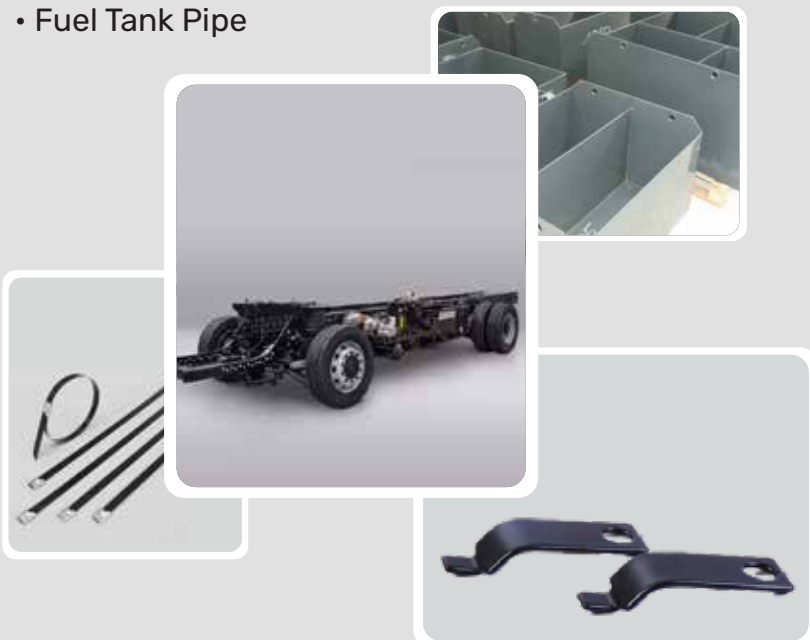
RAL
1018

RAL
2004

RAL
9005

& Many
More

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Outdoor Equipment



Rapid offers specially designed HAPA thermoplastic powder coating for outdoor playground equipment, furniture & steel structure. These coatings provide a protective layer that enhances the lifespan of the equipment and helps it withstand outdoor elements such as UV radiation, moisture, and temperature variations.



Features

- Glossy & Vibrant Colours
- Anti - Skid Property
- Easy To Clean & Repair
- UV Resistance
- Excellent Adhesion To Metals
- Safe for Children and Adults

Applications

- Playground Equipment
- Lamp Post
- Benches
- Public Transport Structure
- Dustbins

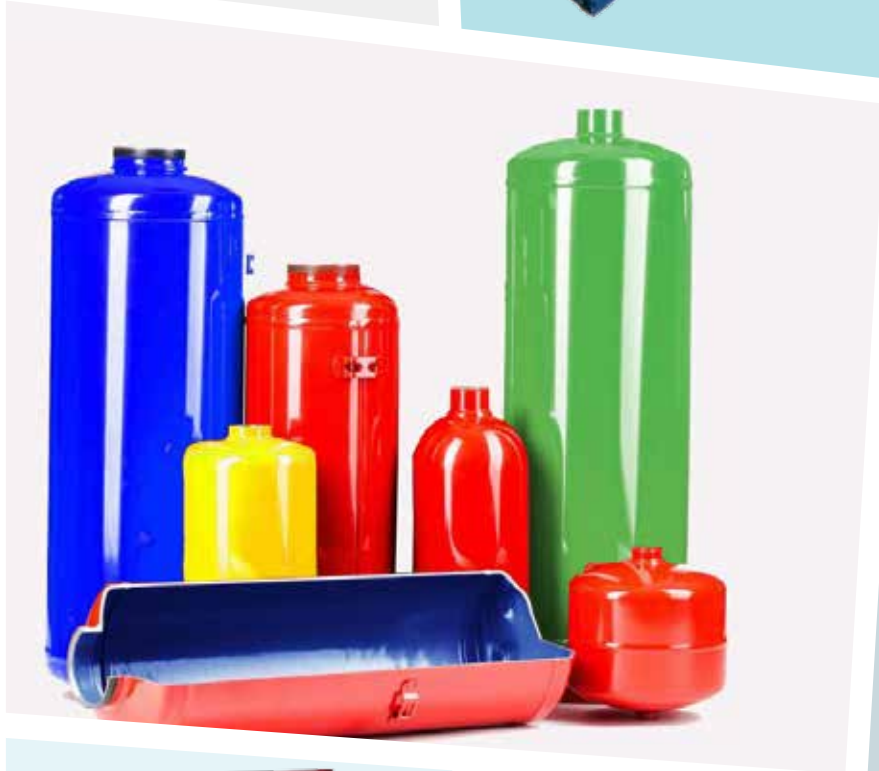
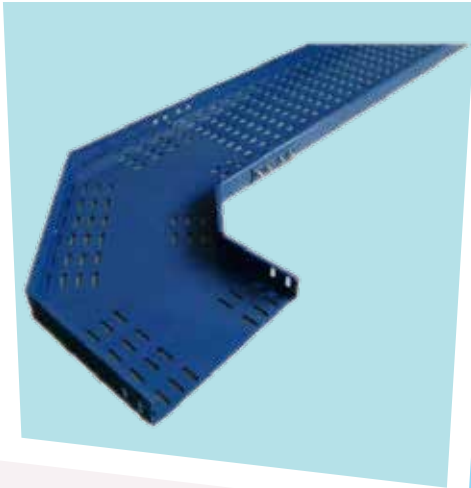


Common Colors Used

RAL 3020	RAL 2004	RAL 1018
RAL 6005	RAL 9005	RAL 6018
RAL 5015	RAL 1013	& Many More

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Wider Range Of Applications



ABOUT US

Founded in **1974** in New Delhi, India, Rapid Engineering Co. Pvt. Ltd. has grown into a leading manufacturer of

- **Thermosetting Epoxy / Polyester Powder Coatings**
- **Thermoplastic Powder Coatings**
- **Plastic Masterbatches**
- **Adhesive Powders**

Rapid's two manufacturing plants are located in Sahibabad, Uttar Pradesh & Noida, Uttar Pradesh. Total manufacturing space exceeds 300,000 square feet. Rapid also operates sales offices cum warehouses in Mumbai, Pune and Chennai. Rapid's products are exported to more than 40 countries and is recognized as a "**Star Export House**" by the Government of India. Since 2001, the company is ISO certified and is currently compliant with **ISO 9001: 2015** certification.

Rapid's outdoor durable Powder Coatings are Class 1 & Class 2 certified by Qualicoat, Switzerland. Rapid's fire-resistant powder coatings are VO rated by Underwriters Laboratories (UL), USA. Rapid utilises cutting-edge instruments like DSC, FTIR, TGA, XRF, Spectrophotometer and QUV to develop innovative and sustainable solutions for customers.

In 2019, Rapid commenced cryogenic pulverisation to produce fine powders of difficult to grind polymers such as LDPE, HDPE, EVA & TPU for metal coatings and as adhesives in leather and textiles.

Rapid Polymers
MASTER BATCHES

www.rapidmasterbatches.com

Rapid Coat
POWDER COATINGS

www.rapidcoat.com

Rapid Polymers
ADHESIVE POWDERS

www.adhesivepowders.com

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