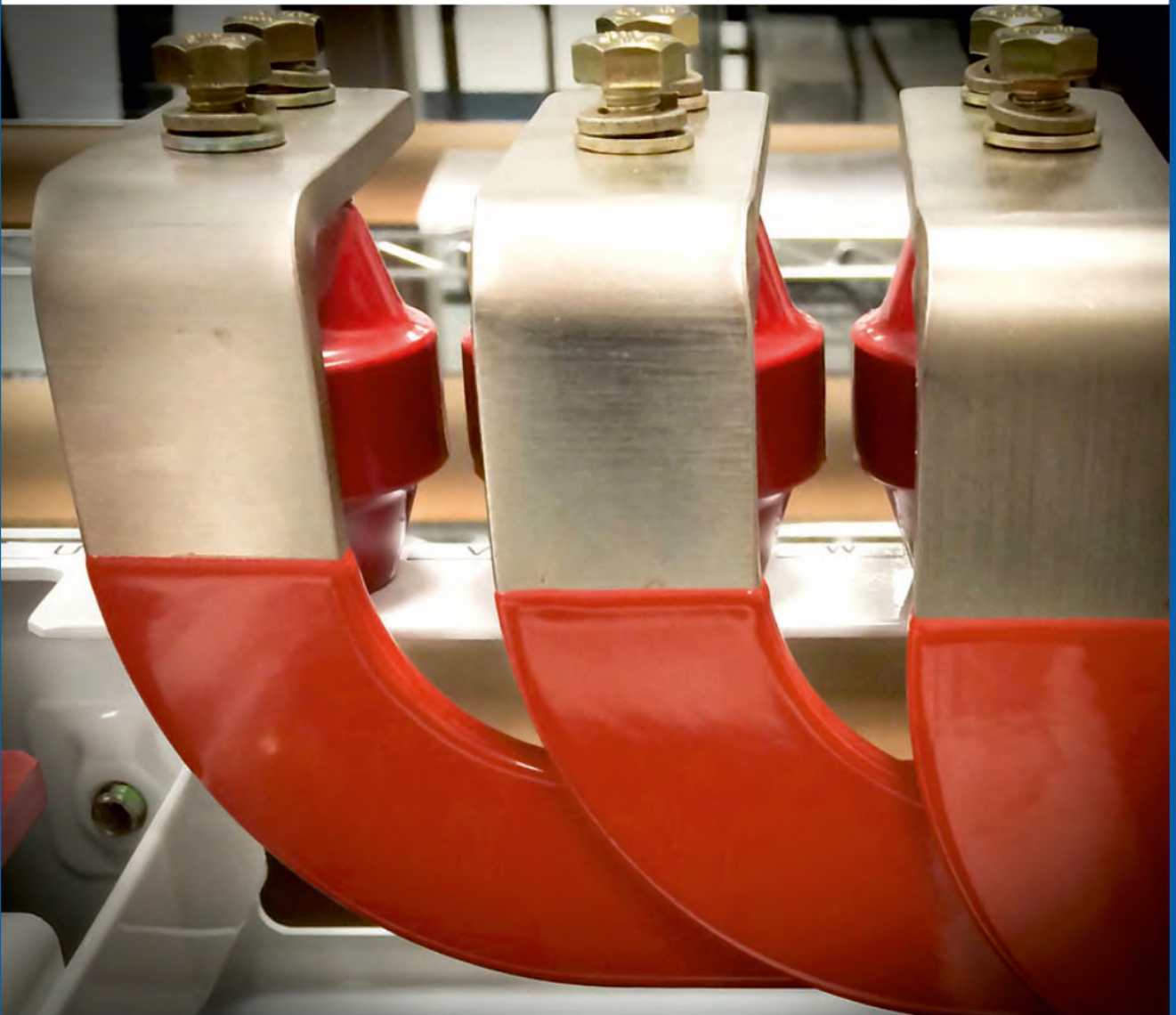




**Rapid Coat**  
POWDER COATINGS

## **RAPID COAT INSULATION POWDER COATINGS**



# Insulation Grade Powder Coating

## Overview

This product is design to achieve the Insulation properties & provide a continuous, tough, moisture and chemical resistant coating to a variety of substrates.



## Testing Standard

**Standard: ASTM D149-97**

Results of our product at Different Coating Thickness

Product	Substrate	Dry Film Thickness in $\mu\text{m}$	Dielectric Strength (kv/mm)	Break Down Voltage (kv)
Insulcoat IS 632	Aluminium	200-300	57.1	16
Insulcoat IS 632	Aluminium	500-550	34.8	18
Insulcoat IS 632	Aluminium	700-750	26.8	19.6
Insulcoat IS 632	Aluminium	950-1050	20.9	21.4
Insulcoat IS 632	Aluminium	1100-1200	19	22.8

## Mechanism of Thermal emissivity.

A perfect black body has emissivity value of 1.0. emissivity value as per colour see below table:

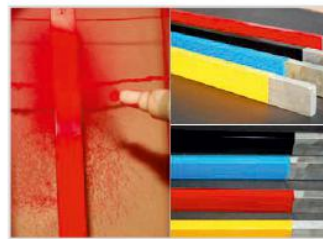
Colour Name	Emissivity
Black	0.96
Blue	0.94
Green	0.92
Red	0.91
Yellow	0.9

So we recommend to use black colour for Insulation.

## Application Areas

There are bright scope of RapidInsulation Powder Coatings in the following segments:-

1. Aluminium & Copper Bus-Bar.



2. Slot Coating for INSULATION





# Insulation Grade Powder Coating

## Types of insulation Powder Coating available.

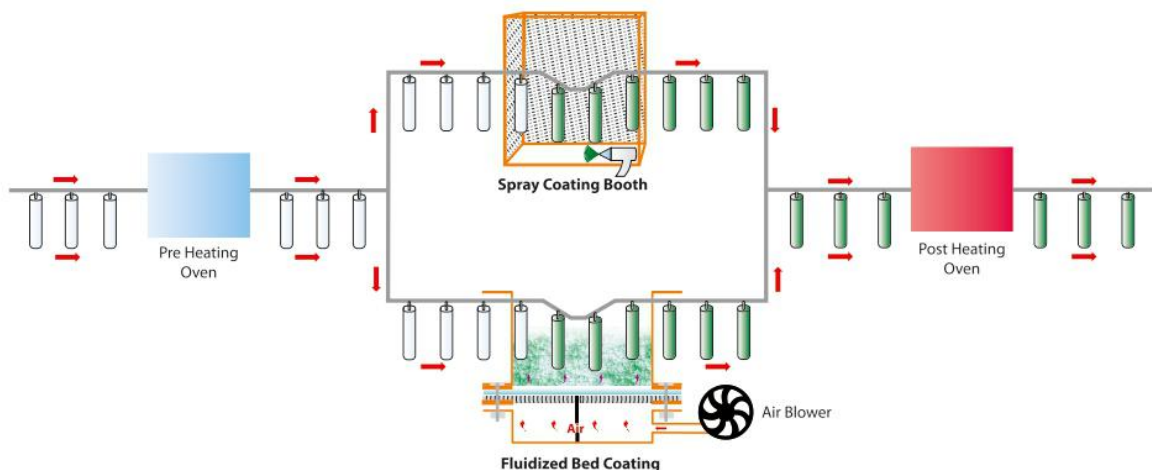
Rapid Coat have four different types of insulation Grade powder coating based upon curing condition & Application process.

Type	Coating Process	Curing		Minimum Coating Thickness (µm)
		Pre-Heat	Post-Heat	
Insul Coat SC NC	Spray Coating By Electrostatic Gun	200°C EMT	180°C / 10 Min. EMT	250-300
Insul Coat DC NC	Dip Coating By Fluidized Bed	200°C EMT	180°C / 10 Min. EMT	250-300
Insul Coat SC FC	Spray Coating By Electrostatic Gun	220°C EMT	Self Cure at Room Temperature	250-300
Insul Coat DC FC	Dip Coating Bed By Fluidized	220°C EMT	Self Cure at Room Temperature	250-300

## Insulation systems are classified by the temperature rating.

The following table summarizes the different insulation systems available.

Insulation Class	Maximum Ambient Temperature	Maximum Temperature Rise Permissible	Maximum Total Temperature permissible
Class A	40°C	65°C	105°C
Class B	40°C	90°C	130°C
Class F	40°C	115°C	155°C



# ABOUT US

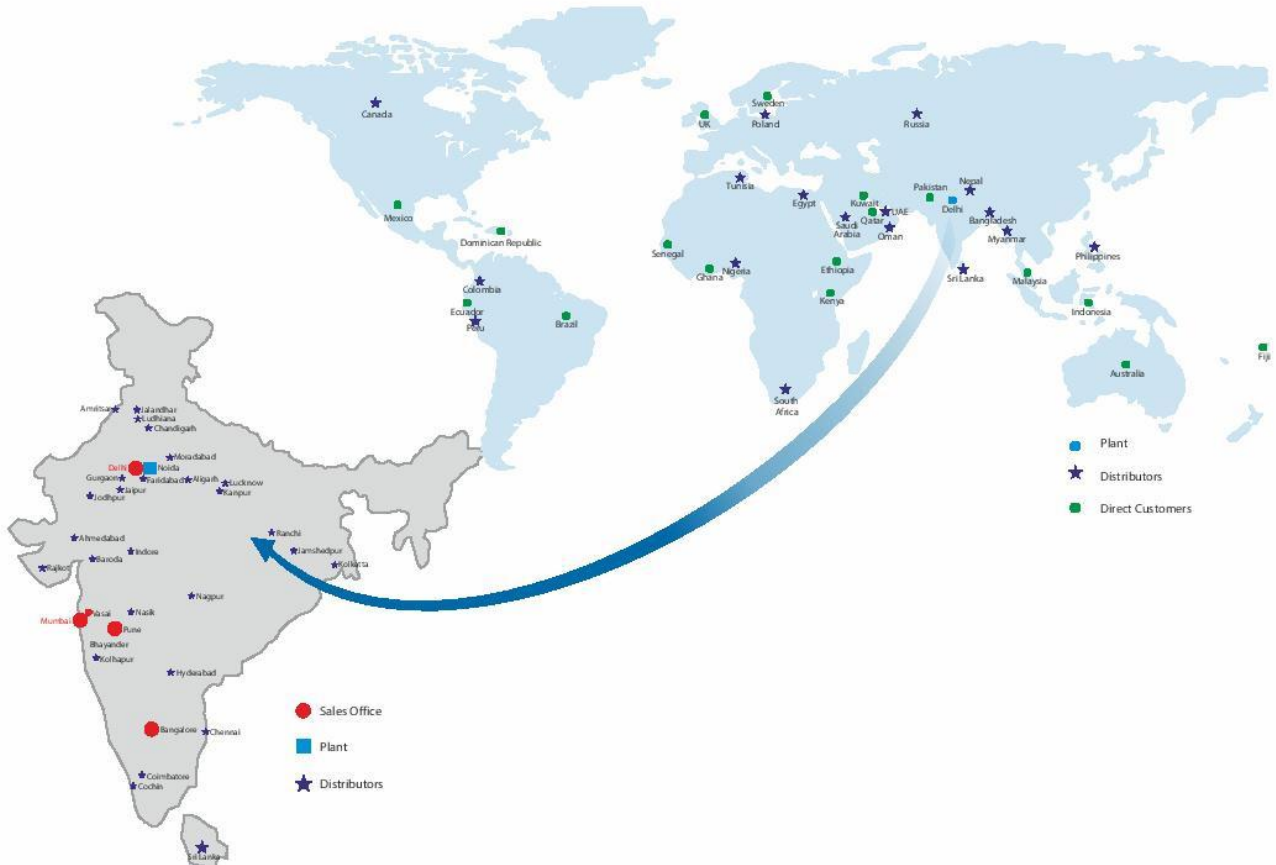
Rapid Coat Powder Coatings is manufactured by Rapid Engineering Co. Pvt. Ltd. The company started operations in 1974 and has been producing powder coatings since the past 25+ years. Its primary operations are located on 2 acres of land in a prime industrial area on the outskirts of New Delhi, India with approximately 100,000 sq. ft. of built up space. It sells its products to customers through a wide network of distributors and company owned sales offices.

## PRODUCTS:

- Epoxy Polyester Powders for Powder Coatings: We are one of the largest manufacturers of this product in India with 9 production lines and a total manufacturing capacity of 7000 tons annually.
- Thermoplastic Powders for Plastic Coating: We are the leaders in India with a manufacturing capacity of 2500 tons annually.

## CERTIFICATIONS:

- ISO 9001:2008 Quality Certificate No. TUV100 07 1477 from TUV SUD Management Service GMBH
- CRISIL Rated SE1B
- Government of India Recognized Export House Certificate



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