


WHEN IT'S **HEAT**  
IT'S **ORBIT**





Orbit Coatings, established in 1987, is a firm believer in powder coating technology and has set for itself the mission to be the one reliable source of supply for everything related to powder coating' from hardwares i.e. powder itself to the complimentary 'software' i.e. all the technical support services.

**To make this happen ORBIT has:**

- Installed a state-of-the-art modern plant on 1,80,000 sq.ft. of land, 5,000 sq.ft. built-up area with an annual capacity of over 700 tons at Alandi, Pune.
- Orbit Coatings is an ISO 9001-2000 company 
- In-house R&D facilities with comprehensive sophisticated testing laboratory.
- Qualified, highly trained & experienced staff.



## ORBIT AND HEAT RESISTANT COATINGS

Orbit started working with H.B Fuller , USA in 1992-93 on heat resistant powder coatings. After a decade, in 2008 Orbit started manufacturing high heat resistant powders under license of H.B. Fuller and then there after under license of Valspar USA.

In 2009, Orbit diversified in heat resistant liquid paints to offer z customers wide range of products for different applications.

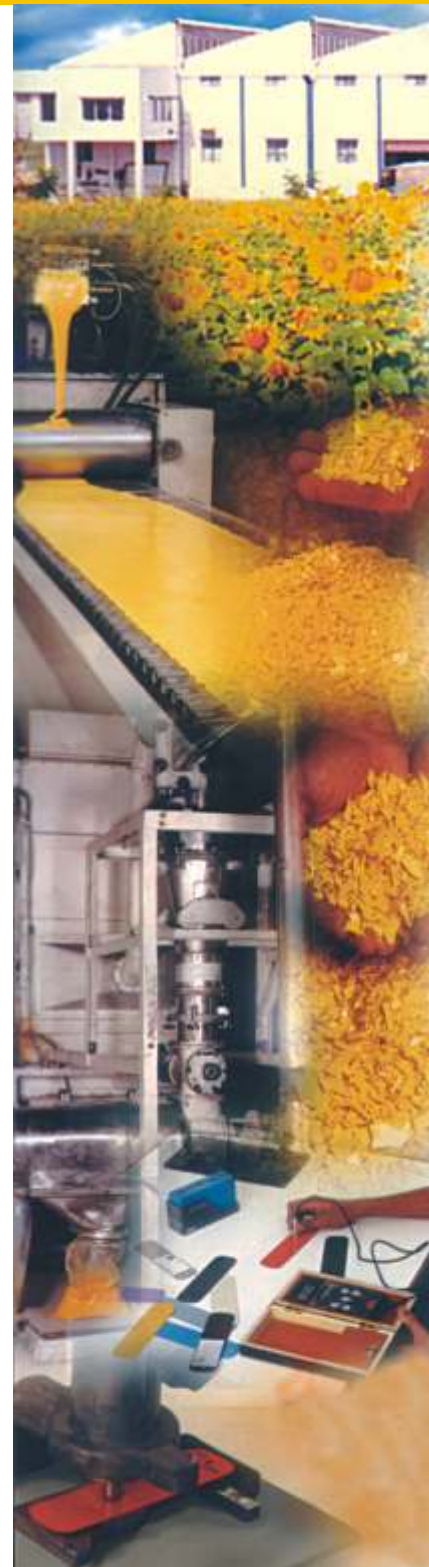
## MANUFACTURING FACILITIES

Orbit has two state of art manufacturing lines custom designed to suit the high heat application.

The manufacturing process is controlled by firstly following ISO 9001 2000 systems wherein the production continues only after complete testing of the first sample. Strict monitoring at every stage ensures the quality of production.

The particle size is also checked with modern testing equipment before continuation of the manufacturing. Orbit has imported ultra modern test equipment to maintain the consistent distribution of particles.

Our main assets are highly skilled and dedicated experts who are well qualified and rich in experience. The manufacturing staff is well supported by other qualified and dedicated experts of materials who keep production running smoothly by providing 100% imported raw materials.



## QUALITY ASSURANCE

In these highly specialized products quality is the main asset . Naturally, the quality department is the heart of our working. As stated above, the In Process Quality control is the essence of production. However, the final product is tested by simulating the conditions at the user. The product is applied on panels of similar substrate and rigorously tested.

The powder quality and its coverage mainly depends upon particle size distribution. At Orbit, continuous monitoring of particle size is done by Laser Particle Size Analyzer.



**Laser Particle Size Analyzer**



**Muffle Furnace**



**Water Quenching**

Orbit heat resistant products are tested for high heat resistance of up to 600°C. The heat aging and heat - water quenching cyclic tests are carried out on the panels in Muffle Furnace for confirming heat resistance of the products.

The corrosion resistance of the products before and after heat tests are carried out as per ASTM standard to confirm behaviour of the products in rainy seasons.



**Salt Spray Testing Cabinet**

## RESEARCH & DEVELOPMENT

Our research is a continuous on going process to offer the best solutions to our esteemed customers. Our marketing team is always in contact with our customers to gather their requirements. They also study the process at applicators and their requirements. Our R&D works on these demands and finds the best and the most economical solution with a green environment in the mind.

Our R&D team, well headed by the top most authority in the organization, keeps abreast with new global technologies. Orbit always endeavors to bring in new technologies.



## INNOVATION

### Metalizing and Powder Coating

Heat resistant powders on shot blasted surface do not exhibit required properties at high temperature. Hence Orbit for the first time introduced new process of shot blasting +metalizing+ powder coating .This process is successfully being used by automobile industry for the last one decade.

### New Innovation to Come

- 1) Higher temperature resistant products
- 2) Nano technology based products
- 3) Green technology with water products of 'O'VOC

## THE ADVANTAGES OF HEAT RESISTANT POWDER COATINGS

- Easy to use
- Eco friendly
- Economical
- Effective protection at high temperature
- Reduced process time
- Reduced VOC
- Reduced air pollution
- Reasonable plant cost

### Liquid Primer and Powder Coating

For the ease of application and to reduce the cost Orbit for the first time globally introduced the new coating system of liquid primer coating followed by heat resistant powder coat on shot blasted substrate.

### HEAT GUARD 600



ADHESION TEST

SALT SPRAY TEST  
AFTER 300 HRS

SALT SPRAY TEST AFTER 5 HEAT  
CYCLES AT 600 C/10 MINUTES  
AFTER 300 HRS

## ORBIT'S SUPPORT

Orbit always supports in establishing these special processes by working with the applicator and monitoring the same at regular intervals.



CORROSION OF MUFFLER OBSERVED



AFTER 5000 KMS RUNNING, ABSENCE OF  
CORROSION OR CHALKING MUFFLER IS COATED  
WITH ORBIT HR POWDER

## ORBIT RANGE OF HIGH HEAT RESISTANT PRODUCTS

### 1) ORBIT - Heat Guard 600 system - I

ORBIT Heat Guard 600-I is high heat resistant coating system specially developed for various applications such as Tractor Silencers, Two Wheeler Silencers, Automobile Silencers, Generators, Barbeques and so on where high temperature requirements are prevailing.

ORBIT Heat Guard 600-I system is easy for application and suitable for external application with good corrosion resistance after achieving high temperature and has lower VOC. The system is suitable for temperatures above 600deg C.

ORBIT Heat Guard 600-I system is two coat system and consists of -

- Base coat of heat resistant primer ORBIT - HR 600 Primer
- Suitable Thinner ORBIT 600 Thinner
- Heat Resistant Powder ORBIT - HR 600 Powder

### 2) ORBIT - Heat Guard 600 system - II

- Base coat of heat resistant paint ORBIT - AL 30
- Suitable Thinner ORBIT 600 Thinner
- Heat Resistant Powder ORBIT - HR 600 Powder

### 3) ORBIT - Heat Guard 600 system - III

- Base coat of heat resistant Paint ORBIT AL30
- Suitable Thinner ORBIT 600 Thinner
- Top coat Heat Resistant Black Paint ORBIT - TCB

### 4) ORBIT - SCB

ORBIT SCB is a high heat resistant Single Coat Black Paint specially developed for various applications such as Two Wheeler Silencers, Automobile Silencers, Generators. It is very economical, having low VOC and easy for application. It can withstand service temperature upto 600deg C.

### 5) ORBIT - AL30

ORBIT Heat Guard AL30 is a high heat resistant Aluminium paint suitable for temperatures upto 500deg C. This can be used as single coat paint or as primer in two coat system to achieve higher temperature resistance. This can be used for economical application of heat resistant coatings for mufflers or ovens.

### 6) ORBIT - AL45

ORBIT Heat Guard AL 45 is a high heat resistant Aluminium paint specially developed for various applications such as Tractor Silencers, Two Wheeler Silencers, Automobile Silencers, Generators, Barbeques, and so on where high temperatures of 600deg C are prevailing.

### 7) ORBIT - IN GREY

ORBIT IN Grey is a high heat resistant Internal paint. This is specially developed for coating of silencers internally to protect from high heat and corrosion under high heat.



## OUR ESTEEMED CUSTOMERS



1, Nakoda Court, 110/ Shivajinagar, Pune 411 005. **Ph.:** +91-20-25536626

**Fax:** +91-20-25536255 **GM:** 99229 58148 **MD:** 98225 15800

**Email:** [orbit@orbitcoatings.com](mailto:orbit@orbitcoatings.com)



SANGHVI GROUP OF COMPANIES