



**RAD**  
Paint Manufacturing (L.L.C)

# Thermoplastic Road Marking Paints





## About Us:

RAD PAINT MANUFACTURING LLC is a leading manufacturer and supplier of thermoplastic road marking materials for the road markings in UAE.

Our business concept is to develop and provide quality road marking products that contribute to increased road safety, informing and guiding road users.

Moreover, RAD PAINT MANUFACTURING LLC add value through close cooperation and strong relationship with customers.

Our Products are designed to offer customers the faster, easier, safer and more qualitative and durable road markings solutions.

RAD PAINT MANUFACTURING LLC Manufacture thermoplastic road marking paints which are confirming to BS 3262 :1989 and AASHTO M249 or any other standards required by Authorities in UAE.

We are using high quality Material and it shall consist of light colored aggregate, pigments and extender, bound together with aliphatic hydrocarbon and rosin resins plasticized with mineral oil and incorporating a suitable pigment dispersing agent.

## Our Advantages:

- The long lifespan of these markings means reduce the costs of road markings so it will reflected on maintenance period.
- The material is environmental friendly consisting of 100% solids and free from volatile organic compounds.
- Short dry time.
- Excellent adhesion resistance for asphalt and bituminous highways.
- Excellent abrasion and anti slip strength.
- Excellent color stability.

Our thermoplastic materials, producing in our factory in the UAE which are using for road marking over asphalt surface, can be applied by various methods including screed, extrusion and spray.

Our plant can make production target towards clients with a production requirement of 1.5 tons per hour.

Batching system : Full Electric Control

Paint Manufacturing Plant Origin : Europe





# Our Products

## Thermoplastic Road marking Paints & Glass Beads



## In-house Lab Facility



# Technical Specification

## 1. Thermoplastic Road Marking Material confirming to BS 3262: 1989

### Proportions of constituents of marking material

Binder ( Resin and Oil)	20 ± 2 %
Solid glass beads	20 % by mass Min
Aggregate, Pigment, Extender and Solid glass beads	80 ± 2 %

### Physical characteristics

Color	White	Yellow
Softening point	≥ 110 °C	≥ 110 °C
Relative Density	2 Approx.	2 Approx.
Luminance Factor	≥ 75	≥ 50
Heat Stability	≥ 65	≥ 45
Flow Resistance	<1%	<1%
Skid Resistance	≥ 45	≥ 45
Flash Point °C	270	270
Maximum safe heating temperature	230 °C	230 °C

### Application surface recommendation

- Application surface must be asphalt surface.
- Surface must be dry and free from loose detritus, mud or other extraneous matter.
- Asphalt and weather temperature must be below 50 °C and above 10 °C.

### Packing and Storage

- The material is supplied in powder packed in plastic bags approx. 25 kg .
- Material shall be stored under cover in dry conditions for a maximum one year from product date.

Advantage of this material is reduced maintenance cost, longer lifetime and hence also less obstruction of traffic due to reapplication of markings.

## 2. Thermoplastic Road Marking Material confirming to AASHTO M249

### Proportions of constituents of marking material

Binder ( Resin and Oil)	$\geq 18 \%$
Solid glass beads	30 – 40 %
White Pigment	$\geq 10 \%$
Inert fillers	$\leq 42 \%$

### Physical characteristics

Color	White	Yellow
Softening point	$102.5 \pm 9.5 \text{ }^{\circ}\text{C}$	$102.5 \pm 9.5 \text{ }^{\circ}\text{C}$
Specific Gravity	$2 \pm 0.15$	$2 \pm 0.15$
Daylight reflectance at $45^{\circ}/0^{\circ}$	$\geq 75$	$\geq 45$
Bond strength (M. Pa)	$\geq 1.24$	$\geq 1.24$
Impact resistance (J)	$\geq 1.13$	$\geq 1.13$
Flow ability	$\leq 18$	$\leq 21$
Yellowness Resistance	$\leq 0.12$	-
Flow ability - Extended heating	$\leq 28$	$\leq 28$
Maximum safe heating temperature	$220 \text{ }^{\circ}\text{C}$	$220 \text{ }^{\circ}\text{C}$

### Application surface recommendation

- Application surface must be asphalt surface.
- Surface must be dry and free from loose detritus, mud or other extraneous matter.
- Asphalt and weather temperature must be below  $50 \text{ }^{\circ}\text{C}$  and above  $10 \text{ }^{\circ}\text{C}$ .

### Packing and Storage

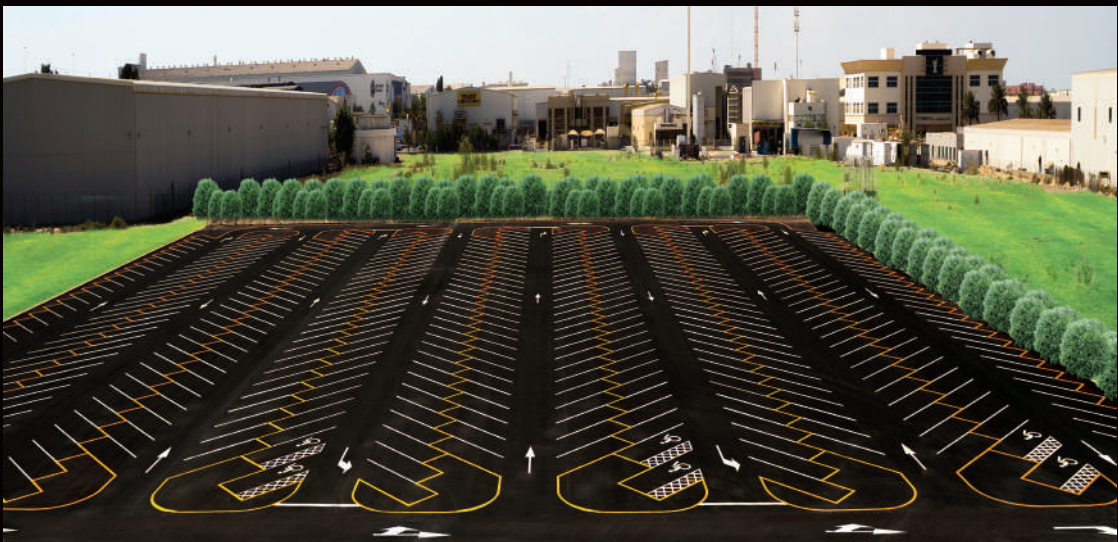
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**[www.rad.ae](http://www.rad.ae)**

Factory:

**RAD PAINT MANUFACTURING LLC**

Dubai Investment Park-2, Dubai, UAE.

Email: [roadmarking@rad.ae](mailto:roadmarking@rad.ae), [paint@rad.ae](mailto:paint@rad.ae)

Head office:

**RAD International Road Construction LLC**

Office No. 2209, Regal Tower,

P.O. Box: 49823, Dubai, United Arab Emirates

Tel: 04 4541491, Fax: 04 4541492

Email: [info@rad.ae](mailto:info@rad.ae)