

# ROAD MARKING

- Hot-melt Thermoplastic Road Marking
- Traffic Paint
- MMA Two-component Traffic Paint
- Application Services

REEF, road marking experts since 1995



# Hot-melt Thermoplastic Road Marking

By REEF Co.

## Definition:

Thermoplastic is so named because the mixture of plasticizer and resins that serves to hold all of the other ingredients together exists as a solid at room temperature, but becomes liquid when heated.

- **HYDROREEF**

Hydrocarbon based hot-melt thermoplastic road marking

- **ALKYREEF**

Alkyd based hot-melt thermoplastic road marking

## Thermoplastic road marking advantages:

- Readiness for immediate use
- High durability
- Excellent retroreflectivity using our verified drop on beads, **REEFDROP**.
- Relatively low cost
- Environmental friendly
- Quick dry times, less than 5 minutes

Thermoplastic materials are rated as the best marking material by more highway agencies (36.5 percent) than any other.

|                           |   |  |
|---------------------------|---|--|
| Application Details       | Application temperature                                     | 190 – 210 °C   |
|                           | Substrates  | Road surfaces: Must be dried and free of dirt.<br>Concrete: Well prepared, clean and sound |
| Product Information       | Reflectivity  | Immediate surface reflection needs drop on glass beads.                                    |
|                           | Physical form   | Well mixed dry powder  |
|                           | Color   | White and Yellow   |
|                           | Density   | 1.98 – 2.04 gm/cm <sup>3</sup>   |
|                           | Flash point   | 230 °C   |
|                           | Volume solids   | 100%   |
|                           | Softening point   | 95 – 115 °C (Produced according to state weather conditions)                               |
|                           | Impact resistance   | After heating for 4 hours at 220 °C, impact resistance is 15in-lb.                         |
|                           | Luminance   | After heating for 4 hours at 220 °C, the value is more than 83%.                           |
| Flow ability              | After heating for 4 hours at 220 °C, the residue is 10-12%. |  |
| Skid resistance           | The value is about 60.                                      |  |
| Drying time after melting | 3 – 5 minutes at 32 °C.                                     |  |
| Composition               | Binder  | 20%  |
|                           | Glass beads   | 30%  |
|                           | Titanium Dioxide  | 10%  |
|                           | Fillers   | 40%  |

You can use our specially formulated primer, **PRIREEF**, in order to have stronger bonding to the old asphalts and concretes.



## ■ Different Methods of application

- Hot-Sprayed
- Screed or Extrusion
- Profiled Application



■ Hot-Sprayed



■ Screed or Extrusion



■ Profiled Application

## ■ HYDROREEF

- Cost effective
- Easier application
- Well-suited for low and medium traffic volume roads.

## ■ ALKYREEF

- More expensive than HYDROREEF
- Sensitive application
- Resistant to grease and oil
- Applicable for high traffic volume roads

# REEF, Road Marking Experts Since 1995

## Traffic Paint

- **ECOREEFPAIN**T, waterborne traffic paint
- **SOLVOREEFPAIN**T, solvent based traffic paint
- **NANOREEFPAIN**T, nano composite traffic paint



### Definition:

Traffic paints are in liquid form due to the presence of solvent. When applied to surface, the solvent evaporates, leaving a hard film.

### Traffic paint advantages:

- Easy application at ambient temperature as low as 4°C
- Possibility of traffic marking application in the colder condition
- Low cost
- Reasonable durability
- Good retroreflectivity using our verified drop on beads, **REEFDROP**

### ECOREEFPAIN

- Environmental friendly
- Application temperature is from 2°C to 50°C
- More expensive than SOLVOREEFPAIN

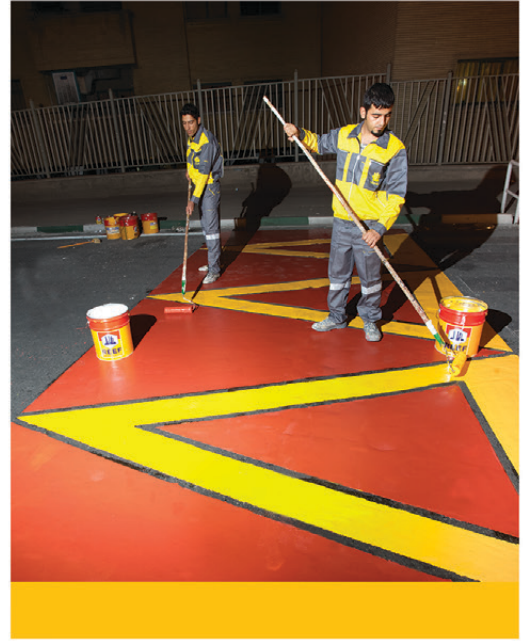
### SOLVOREEFPAIN

- High VOC and low VOC formulation
- Suitable for colder ambient applications (less than 2°C)
- Versatile formulation based on different polymers

### NANOREEFPAIN

- Higher durability
- High opacity and excellent adhesion
- High abrasion and scratch resistance
- Suitable for markings on airfields

|                            |   |   |
|----------------------------|---|---|
| <b>Application Details</b> | Film thickness, dry<br>Film thickness, Wet<br>Theoretical spreading rate                                | 400 – 500 μ<br>800 – 1000 μ<br>1.1 – 1.3 m <sup>2</sup> / lit   |
| <b>Product Information</b> | Color<br>Solids (by volume)<br>Specific gravity<br>Flash point<br>Viscosity<br>Cure<br>Gloss<br>Reflect | White and yellow<br>52 ± 1%<br>1.3 – 1.5 gr/cm <sup>3</sup> (time: 20 – 25 °c)<br>21 °C<br>85 – 105 ku (25 ° c)<br>By solvent released<br>20 Max<br>80% Min |
| <b>Drying Time (25 °C)</b> | Dry to touch<br>Dry to handle   | 15 – 20 mins<br>35 – 40 mins  |



## Definition:

MMA two-component traffic paint is a nonhazardous durable pavement marking material that is liquid in shape but becomes solid when it is mixed statically with a hardener.



**MMAREEFPAIN**

**MMA Two-component  
Traffic Paint**

## MMA Two-component Traffic Paint Advantages

- High durability, service life of greater than 3 years is common
- Highly resistant to oils and abrasion
- Excellent bonding even to the concrete pavements
- Shorter dry times than traffic paints
- Excellent retroreflectivity using our verified drop on beads, **REEFDROP**

|                             |  |  |
|-----------------------------|--|--|
| <b>Application Details</b>  | Film thickness<br>Theoretical hiding power<br>Surfaces to application        | 2-3mm<br>0.3-04 m <sup>2</sup> / liter<br>concrete – asphalt   |
| <b>Product Information</b>  | Finish<br>Color<br>Volume Solid<br>Specific gravity<br>Curing time<br>Curing | Semi Matt<br>White and yellow (and other color)<br>100%<br>1.8 ± 0.1 gr/cm <sup>3</sup><br>15 – 30 min / 25 ° C<br>Chemical reaction |
| <b>Weight of components</b> | Component A<br>Component B<br>Pot life                                       | 25 Kg<br>0.25 – 0.5 Kg<br>15 mins – max  |

## Application Services


With more than 100 machineries including, trucks, preheaters, hot-melt road marking machines, line removal machines, etc. REEF has named one of the biggest contractors of the Middle East.

### Application services are as follows


- Consultation
- Drawing
- Road marking application
- Maintenance
- Training





 No. 206B 2nd, floor Baniyas complex  
Baniyas sq. Deira Dubai  
P.O.Box:48090 Dubai U.A.E.

 [www. imenreefaria.com](http://www.imenreefaria.com)  
[sales@imenreefaria.com](mailto:sales@imenreefaria.com)

 Phone: +97142299245-6  
Fax: +97142299247