



Thermoplastic Road Marking Paints BS 3262 : 1989 **WHITE & YELLOW**

GENERAL DESCRIPTION

Thermoplastic road marking materials confirming to BS 3262 (part 1) 1989 shall consist of light colored aggregate, pigment, extender and glass beads bound together with aliphatic hydrocarbon resin plasticized with mineral oil. When in molten state after heating, it is applied hot to the road surfaces, using screed, extrusions, or sprayed applications. The material is modified to meet the requirements of Road and Transport Authority of Dubai.

Available colours are White and Yellow other colours are also available on request.

PROPORTION OF CONSTITUENTS

CONSTITUENTS	PERCENTAGE BY MASS
Binder	18-22
Glass Beads	20% Min
Aggregates together with pigment, Extender and glass beads	78-82

Binder Composition

It shall consist of Hydrocarbon resin & plasticize with natural and synthetic polymer.

Glass Beads

Glass beads shall be reasonably spherical and free from flaws, confirming to BS 6088 class A (uncoated glass beads).

Aggregates

It shall consist of light colored silica sand, calcite.

Pigments

White-Titanium dioxide to BS Rutile / Anatase

Yellow-Lead Yellow chromate

Extender

Selected grade of naturally occurring calcite/ calcium carbonate prepared from natural chalk.

TECHNICAL DATA SHEET



Grading of Glass beads in Mix BS 6088 Class A

<u>Sieve(mm)</u>	<u>% Retained by Weight passing</u>
1.18	0-3
0.850	5-20
0.425	65-95
Below 0.425	0-10

Grading of Glass beads Drop on BS 6088 Class B

<u>Sieve(mm)</u>	<u>% Retained by Weight passing</u>
0.850	0-5
0.600	5-20
0.300	30-75
0.180	10-30
Below 0.180	0-15

SURFACE PREPERATIONS

- ❖ The surface should sound dry, free from dust, dirt, grease or oil & any other detritus material. Surface temperature should be between 5°C -50 °C.
- ❖ Existing markings should be removed prior to application however may also be applied over existing thermoplastic markings provided they are strongly attached to the surfaces with low thickness.
- ❖ For new surfaces, Permanent markings ensure that bituminous screeds have cured for a minimum of 3 days.
- ❖ For previously painted surfaces in sound condition: remove loose and flaking paint back to a sound substrate. Remove dirt, grime, oil, grease and other contaminants.
- ❖ For concrete surfaces primer is need before application unless is verified.

APPLICATIONS

- ❖ The Material has to be placed into a pre-heater fitted with mechanical stirrer and thermometer.
- ❖ When the material has been heated to its application temperature around 200°C, carefully transfer to application equipment and proceed to use.
- ❖ Maximum safe heating temperature of 230°C should not be exceeded.
- ❖ In order to obtain immediate surface reflection, suitable glass beads have to be drop on.

STORAGE

- ❖ Materials should be stored under closed shade away from the sun. Properly stored materials would be in applicable condition up to one year from the date of production.

PACKING

- ❖ 25 kg melt able polyethylene bag.