



# THERMOPLASTIC ROAD MARKING PAINT



## PREPARATIONS OF MATERIAL :

Thermoplastic powder is put into the container of machine and it is heated. The material is mixed uniformly by operating the agitator in the container. The thermostat is adjusted to a temperature of 180-200 degree centigrade. The material is added to the container to its full capacity and melted till it achieves smooth consistency. The molten material will be used expeditiously. The thermoplastic material will also be prepared in prepared



## SPECIFICATION OF THERMOPLASTIC MATERIAL LAID DOWN BY M.O.S.R.T. & H.

S.NO.	COMPONENT	WHITE	YELLOW
1	Glass Beads	30±40	30±40
2	Calcium carbonate & Inert Fillers	42.0 Max.	As per manufacturer
3	Binder	18.0 Min.	18.0 Min.
4	Titanium Dioxide (TiO2)	10.0 Min.	---
5	Yellow Pigments	---	As per manufacturer

## PROPERTIES OF COMPOUND IN COMPARISON TO SPECIFICATION LAID DOWN BY M.O.S.R.T. & H.

PROPERTIES	WHITE		YELLOW	
	AS PER MOSRT & H	THERMOPLASTIC	AS PER MOSRT & H	THERMOPLASTIC
Daylight Luminance (at 45°C)	65% Minimum	>75%	55% Minimum	>55%
Drying Time	Not more than 15 Min.	5 Min.	Not more than 15 Min.	5 Min.
Cracking Resistance at Low Temperature	Shall show no crack on application to concrete block	Pass	Shall show no crack on application to concrete block	Pass
Softening Point	Above 98°C	102. 0°C	Above 98°C	102. 0°C
Flow Resistance	Not more than 25%	8%	Not more than 25%	9%
Yellowness Index	Not more than 0.12	0.07	N.A.	N.A.
Skid Resistance	Greater than 45	56	Greater than 45	58

### PROCESS CONDITIONS

Road Surface Temperature 20 degree C min.  
 Safe Heating Temperature 200 degree C max.  
 Optimum application Temperature 180±10 degree C

### COVERAGE

For a dry film thickness of 2.5mm, 5.0 Kg per sqmtr. (Without wastage)

## PROPERTIES OF CONCRETE PRIMER FOR "OT" COMPOUND ON CONCRETE SURFACE

S.NO.	COMPONENT	RESULTS REQUIRED	RESULTS ACHIEVED
1	Colour	Clear	Clear
2	Clarity	Translucent	Translucent
3	Drying time at 30° C	20 min.	11 min.
4	Volume Solids	33 ± 2%	31
5	Weight per Ltr.	0.92 Kg / Ltr.	0.96 Kg / Ltr.
6	Viscosity at 30° C as per Ford cup No. 4	26 Sec.	26 Sec.

### HANDLING PRECUATIONS

Avoid eye & skin contact and protective gloves and safety goggles should be worn. During application a reflective safety belts / jacked should be worn.

