



Thermoplastic Road Marking Paints AASHTO M249 WHITE & YELLOW

GENERAL DESCRIPTION

RAD Thermoplastic road marking materials conforming to AASHTO M249 shall consist of light colored aggregate, pigment, extender and glass beads bound together with aliphatic hydrocarbon resin / thermoplastic 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.

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

PROPORTION OF CONSTITUENTS

CONSTITUENTS	PERCENTAGE BY MASS OF MIXTURE
Binder	≥18
Glass Beads	30-40
White Pigment	≥10
Yellow Pigment	As required
Calcium Carbinatate & inert filler	≤42

Binder

The binder is plasticized synthetic resin, plasticized natural resins or rosins. The viscosity and wetting properties of the binder at the application temperature give a composition that can be applied satisfactory.

Glass Beads

Glass beads shall be reasonably spherical and free from flaws, conforming to AASHTO M247 Type I uncoated with following properties.

Grading of Glass beads in Mix AASHTO M247 Type I

Sieve(mm)	% Passing by Weight passing
0.850	100
0.600	75-95
0.300	15-35
0.150	0-5

TECHNICAL DATA SHEET



Pigments

WHITE: The White pigment is Titanium Dioxide and its content is 10% minimum by mass.

YELLOW: Yellow chrome

Filler

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

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 220°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 low melting bio degradable polyethylene bag.