

## TRAFFIKOTE TFK-115 HM



No. TD : T-045  
Revision : 00  
Effective Date : 01/03/2021

### PRODUCT DESCRIPTION

**TRAFFIKOTE TFK-115-HM** is a 100% solid material blend of binder, pigments, plasticizers, glass beads and extenders for road marking and runway surfaces. Complies with **AASHTO M-249 / T-250**.

It is melted to a temperature not exceeding 220°C and applied in a molten / liquid state to the pavement. Upon cooling to the normal pavement temperature, the completed thermoplastic road markings provides a very durable and reflective markings for the road users.

Excellent adhesion on suitably prepared surfaces, good durability and resistance to abrasion, suitable for spray application only, night visibility and skid resistance.

The product has been formulated lead free.

### FIELDS OF APPLICATION

- Parking lots
- Highway
- Airport and terminal area
- Sidewalks
- Others area where line markings are required

### ADVANTAGES

- Fast drying and excellent adhesion to suitably prepared
- Non-flammable
- Abrasion resistance
- Non-slippery
- Good reflecting color

### TECHNICAL DATA

Type	: Solvent based
Color	: White & Yellow
Finish	: Matt
Specific Gravity	: $2.10 \pm 0.05$ gr/cc
Solid by Volume	: 100%
Coverage	: $4.0 - 10.0$ kg/m <sup>2</sup> for $\pm 2.0 - 5.0$ mm Dry Film Thickness (This serves as a guide only)
Recommended Dry Film Thickness per Coat	: $2.0 - 5.0$ mm
Drying Time on pavement (50°C)	: 5 – 10 minutes
Packaging	: 25 kgs polypropylene woven bags
Storage Stability	: One year from the date of manufacture if it is stored in cool and dry place and in its original not opened package
Application Method	: The melted compound can be applied by screed or extrusion
Application Temperature	: $170 - 200^{\circ}\text{C}$
Humidity Maximum	: 80 % RH
Provide adequate ventilation during application and drying	

## TEST PERFORMANCE DATA

Item	: Result	Standard Test
%Binder	: $20 \pm 2$	AASHTO M.249 – 98
%Glass beads	: $35 \pm 5$	AASHTO M.249 – 98
%TiO <sub>2</sub> in White	: $\geq 10\%$	AASHTO M.249 – 98
%Extenders	: $\leq 42\%$	AASHTO M.249 – 98
Softening point	: $100 - 105$ °C	AASHTO M.249 – 98
White reflectance (Y Value)	: $\geq 87$	AASHTO M.249 – 98
Yellow reflectance (Y value)	: $\geq 44$	AASHTO M.249 – 98

## INSTRUCTION FOR USE

### Surface Preparation

Ensure that surfaces are dry, sound, and free from dust, dirt, grease, and oil before painting

#### NEW SURFACES

1.1 For permanent markings: Ensure that Bituminous screeds have cured for a minimum of 3 months and concrete substrate has cured for minimum 1 month.

NOTE; paints applied over bituminous screeds cured in less 3 months old or concrete cured in less than 1 month are to be regarded as temporary markings with an expected service life of less than 6 months.

#### PREVIOUSLY PAINTED SURFACES

1.2 previously painted surfaces in sound condition: remove loose and flaking paint back to sound substrate.

Remove dirt, grime, oil, grease and other contaminants

### Application Procedure

#### Function Product and Tools

##### Finish Coat : MELTING

- Thermoplastic road marking paints are supplied in 25 kgs low melt polyethylene bags that maybe melted with the product depending on application. Not recommended for airless spray application.
- Place a few bags into preheated vessel, fitted with mechanical agitation and temperature control to approximately application temperature.
- When material has been heated to the recommended temperature and thoroughly mixed, it can be transferred to the application equipment.

#### REFLECTIVITY & SKID RESISTANCE

In order to obtain immediate surface reflection, suitable glass beads have to be dropped on.

The required paint dry film thickness is determined by the size of the glass beads being applied to the marking. It is important that the specified film thickness is achieved in order to maximized the bead retention and wearing properties of marking. Glass beads must be applied immediately to wet paint to create reflective marking. Do not mix beads directly into paint.

## RECOMMENDED COATING SYSTEM

Preceding coats : consult with Propan representative

Subsequent coats : -

### Cautions

- Not recommended for friable slurry type surfaces.
- Do not exceed the maximum safe heating temperature, this is potentially dangerous and could lead to discoloration and deterioration of binder.
- Use the prescribed beads for thermoplastic application to prevent application problems upon the speed of drop on in order to achieve optimum results.

## SAFETY PRECAUTIONS

- Always use the correct protective equipment during heating and application.
- Keep out of reach of children.
- Ensure good ventilation during heating and application.
- Avoid skin and body contact at all cost when heated – seek immediately medical attention
- Take care to avoid contact with eyes
- Harmful if swallowed. Do not induce vomiting. Seek medical attention.

### First Aid

Skin Contact : Wash with soap and water. If irritation occurs, seek medical advice

Eye Contact : Rinse immediately with plenty of water. Seek medical advice if irritation persists.

Inhalation : Take the person out to get more fresh air, loosen collar and avoid exertion.  
Keep patient rested and help using breathing apparatus.