



ROADMARK INDIA



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Certificate of Registration

issued to

ROADMARK INDIA

having been assessed by International Benchmarking and Certifications for compliance is certified to be registered in the List of Registered Organizations with regard to the standard and scope of supply as detailed below from their site: **PLOT NO. 18/1, STREET NO. 8, KADIPUR INDUSTRIAL AREA, GURGAON-122001, HARYANA (INDIA)**

ISO 9001:2015 (QMS)

For the following scope: **MANUFACTURING & TRADING OF THERMOPLASTIC ROAD MARKING MATERIAL.**

Certificate Number: QM/1607RN/2214

Date of Certificate: 12.07.2016

Date of Expiry: 11.07.2019

1st Surveillance Due on : 11.06.2017

2nd Surveillance Due on : 11.06.2018

Director:  **Date: 12.07.2016**

This Certificate is issued in accordance with the procedures for certificate registration and is valid only until the date of expiry or earlier if so advised, in writing to the certificated organization by IB&C. It is issued subject to the continued availability of access at any time and without notice to the above named organization's premises for the purpose of assessment and surveillance regarding the standard named above and IB&C Terms and Conditions. This is an accredited Certificate authorized for issue by the American International Accreditation Organization-Bureau of Accredited Registrars in accordance with ISO 17021 "Conformity Assessment Requirements for bodies providing certification of management systems." Certificate holders are listed in the Register of IB&C clients.



International Benchmarking & Certifications

U 60, 3rd Floor, Shakarpur, Delhi 110092, India

www.international-benchmarking.com

[e mail: admin@international-benchmarking.com](mailto:admin@international-benchmarking.com)

This certificate remains the property of IB&C



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Welcome to RoadMark India

We RoadMark India are one of the trusted Manufacturer and supplier of quality assured range of Thermoplastic Road Marking Material (TRMM) & Road Safety Equipments. Best quality raw materials are used for manufacturing these products to provide safety and full compliance with the increasingly exacting international standards. The goal was thus to create product that would be in keeping with both the roads themselves and their surroundings, thus blending the needs of the environment with road engineering techniques. Under able guidance of big professionals we have set good standards in industry.

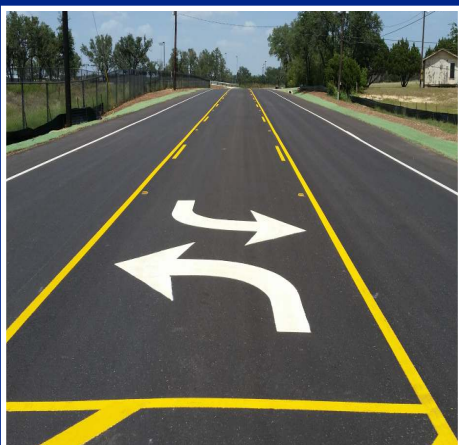
About Us

We have started our journey as scaffolding & shuttering manufacturer in Haryana and manufacturing all scaffolding & shuttering items at large scale & supplying shuttering products to the prestigious construction companies & contractors all over India. After serving the construction companies for more than two decades we have introduced “**RoadMark India**” (RMI) an **ISO 9001:2015 (QMS) Company** for catering the growing needs of safety on roads. RMI started manufacturing of **Hot Melt Thermoplastic Road Marking Material** conforming to the specification laid down by Ministry of Road Transport and Highways (MORT&H) clause 803.4, BS (British Standard) 3262 under the brand name “**TUFF**” & “**WINNTUS**”™ Road Marking Materials .

About The Product

Thermoplastic Road Marking Material/Paint/Compound “TUFF” & “WINNTUS”™

Hot applied TRMM is specially formulated with Premium quality raw materials available in the World. This is based on aliphatic chemistry offers superior weathering resistance and colour stability for tropical Indian condition. It's a synthetic resin based thermosetting material which is having better features comparing to conventional cold applied paints. The material consists of 100% solids and is environment friendly as it does not emit any solvent. TRMM are generally regarded as superior as and more cost effective than other paint markings as it has better durability, reflectivity, and visibility and provide less traffic disruption during application.





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Advantages Of Thermoplastic Road Marking Material Over Conventional Paints

Thermoplastic Road Marking Material

- 👍 **Cost Effective** – Initial cost per square meter is higher than conventional cold paint but Thermoplastic Road Marking is much more durable. It has 6 times longer life than cold paint and is therefore much more cost effective.
- 👍 **Fast Drying** – Thermoplastic road markings cool down within minutes, reducing traffic disruption and confusion. Wet tracks by vehicles are totally avoided since it dries quickly.
- 👍 **Improved Night Time Visibility** – The inclusion of intermix and drop on glass beads gives the line an immediate and enhanced night time reflectivity.
- 👍 **Better Control on Thickness of Coating** – Thickness and line definition is strictly controlled mechanically, resulting in high quality line markings.
- 👍 **Skid Resistant** – Thermoplastic Road Marking contain aggregates that make lines less slippery and safer for vehicles.
- 👍 **Environment friendly** – Thermoplastic Road Markings are dry 100% solids and after application harden by cooling resulting in no solvents being released into the atmosphere & it is non polluting material.

Conventional Cold Applied Paint

- 👎 **Less Cost Effective** – Cold applied Road paint disappears from the road surface when exposed to medium/high density traffic within six months. Colour retention and visibility is impaired within 3 months. Repeated application of cold paint in the long term becomes much more expensive when compared to thermoplastic.
- 👎 **Slow Drying** – Cold applied paints require long time for drying after application and therefore cones/barriers are required for long periods to protect the paint while it dries. Usually, where cones or barriers are not available, wet tracks by vehicles ruin the paint job.
- 👎 **Poor Visibility** – Cold applied road paints offers low visibility at all times. This poor visibility at all times. This poor visibility gets worse during wet conditions.
- 👎 **Less Control on Thickness** – Thickness is not controlled by any reliable method and is at the discretion of the operator.
- 👎 **Slippery Surfaces** – Cold applied paints are smooth and during wet conditions provide highly reduced traction with vehicles tyres making them slippery and hazardous.
- 👎 **Environment Hazard** – Cold traffic paints contain solvent, which are environmentally hazardous. These solvents are released into the atmosphere as the cold paint dries.





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Method of Application

The thermoplastic road marking materials must be pre heated in a pre heater and transferred into a TRMM application machine. To get the best result before application of TRMM, surface of the road should be free from dust, oil spillage, grease, loose particles, moisture, cracks/unfilled space, excessive bleeding of bitumen previous applied cold paint. TRMM can be applied on bituminous or concrete surface. The temperature of the surface should not be less than 10degree centigrade. Recommended primer must be used before application on concrete surface.

Application Precaution

1. Before application of TRMM surface should be inspected thoroughly for best results.
2. Before Application, The surface should be dry & free from dust, Loose particles, oil spillage, grease, moisture, cracks, excessive bleeding of bitumen & crevice.
3. If TRMM have to be applied over previous cold marking paint it must be removed by wire brush to get longer bonding properties.
4. The use of per-heater (Melter / Boiler) gives better results & covering area, comparing to the application done by directly heating in manual hot melt marking trolley.
5. Repairing of cracks & crevices should be carried out before application.
6. TRMM can be applied with all type of road marking application machine like hand prams & automatic machine.
7. This should be ensured that Glass beads dispenser sprinkles required quantity uniformly for better initial reflectivity.

General Problem / Solution

Patchy reflection at night : Improper spray of Glass Beads. Delay in spraying of Glass Beads.

Blackening of Strips : Applied over new-carpeted Road. Excessive drop on Glass Beads.

Bubble formation: Applied at high temp. (Over 200° C).

Cracking : Due to expansion and contraction of road surface by changing of weather. Uneven screed of TRM mixture.

Peel off : Applied over dirty or wet surface. Material applied at low temperature.

ESTIMATED PER K.M. CONSUMPTION OF TRMM AT 2.5 MM THICKNESS

Single solid line 100 mm (Edge Line)	500 kg
Single solid line 150 mm (Edge Line)	750 kg
Broken line 3m/3m gap. 100mm (center line)	250 kg
Broken line 3m/6m gap. 100mm (center line)	170 kg
Broken line 3m/4.5m gap. 100mm (center line)	200 kg
One edge line 150mm+1 center line 3/3 gap	1000 kg
Two edge line 150mm+1 center line 3/3 gap	1750 kg
One edge line 150mm+1 center line 3/6 gap	925 kg
Pedestrian crossing (zebra) 0.5 mt x 3.0 mt per strip	7.0 kg



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"TUFF" Product Description

Retro-reflective Thermoplastic Road Marking Material Confirming to MORT&H, 803.4

Technical Data

Colour	White & Yellow
Composition	
Binder	Minimum 18%
Glass Beads (Intermix)	Minimum 30%
TiO ₂ (for White)	Minimum 10%
Fillers (for White)	Maximum 42%
Softening Point	102.5 ± 9.5°
Yellowness Index (for White)	Not More than 0.12
Drying Time	Maximum 15 minutes
Daylight Luminance @ 45°	
White	Minimum 65 %
Yellow	Minimum 50%
Flow Resistance	Not more than 25 %

Features and Recommended Use

- Conforms to clause 803.4 of "Specification for Road & Bridge Works" issued by the Ministry Of Road Transport & highways (MORT&H)
- Retro-reflective thermoplastic road marking material with excellent whiteness.
- Inter mix glass beads offer long lasting retro-reflectivity.
- Optimal balance between melt flow and flow resistance to achieve well defined lines as per the desired width and thickness.
- Excellent wear resistance and adhesion on asphalt roads.
- Suitable for application with manual, screed/ extrusion automatic machines.

Directions For Use

- Heat the material in a pre-heater with adequate agitation till the material becomes a homogeneous liquid.
- Ensure that the road surface should be free from dust, oil spillage, grease, loose particles, moisture, cracks/unfilled space, excessive bleeding of bitumen previous applied marking.
- For concrete & aged asphalt roads a primer coat recommended for proper bonding of the material with the road surface.
- Ensure that the primer is thoroughly dry and void of solvent prior to application of the thermoplastic material.
- Ensure temperature of 180-200° C and adequate agitation during application. Do not hold thermoplastic above 180° C for more than 6 hours. Do not heat the material above 220° C at any point.
- Change in colour indicates that the material has been scorched owing to overheating and needs to be discarded.
- Drop-on glass beads must be immediately deposited after thermoplastic application.

Safety Information

- Minimise dusting of the material during use.
- Use personal protective equipments like face mask, goggle, heat resistant gloves, safety shoes and protective clothing while handling the material is recommended.
- Do not inhale the product or fumes, do not ingest.
- Avoid eye contact, if contacted, wash copiously with water.
- Contact of molten product with skin would lead to thermal burns, flushed with cold water, do not remove material as it would lead to severe tissue damage.

Storage & Packing

- Storage:-A minimum shelf life of 12 months when stored in cool and dry and covered place.
- Packing:-25kg. HDPE/PP Bag.



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"WINNTUS™" Product Description

Retro-reflective Thermoplastic Road Marking Material Confirming to BS 3262: Part 1/1989

Technical Data

Colour	White & Yellow
Composition	
Binder	Minimum 18%
Glass Beads (Intermix)	Minimum 20%
Aggregates including glass beads, pigment & extender	80 ± 2 %
Softening Point	Greater than 65° C
Yellowness Index (for White)	Not More than 0.12
Drying Time	Maximum 15 minutes
Daylight Luminance @ 45°	
White	Minimum 65 %
Yellow	Minimum 50%
Flow Resistance	Not more than 25 %

Features and Recommended Use

- Conforms to the British Standards (BS) Specification 3262: Part 1/1989.
- Retro-reflective thermoplastic road marking material with excellent whiteness.
- Inter mix glass beads offer long lasting retro-reflectivity.
- Optimal balance between melt flow and flow resistance to achieve well defined lines as per the desired width and thickness.
- Excellent wear resistance and adhesion on asphalt roads.
- Suitable for application with manual, screed/ extrusion automatic machines.

Directions for use

- Heat the material in a pre-heater with adequate agitation till the material becomes a homogeneous liquid.
- Ensure that the road surface should be free from dust, oil spillage, grease, loose particles, moisture, cracks/unfilled space, excessive bleeding of bitumen previous applied marking.
- For concrete & aged asphalt roads a primer coat recommended for proper bonding of the material with the road surface.
- Ensure that the primer is thoroughly dry and void of solvent prior to application of the thermoplastic material.
- Ensure temperature of 180-200° C and adequate agitation during application. Do not hold thermoplastic above 180° C for more than 6 hours. Do not heat the material above 220° C at any point.
- Change in colour indicates that the material has been scorched owing to overheating and needs to be discarded.
- Drop-on glass beads must be immediately deposited after thermoplastic application.

Safety Information

- Minimise dusting of the material during use.
- Use personal protective equipments like face mask, goggle, heat resistant gloves, safety shoes and protective clothing while handling the material is recommended.
- Do not inhale the product or fumes, do not ingest.
- Avoid eye contact, if contacted, wash copiously with water.
- Contact of molten product with skin would lead to thermal burns, flushed with cold water, do not remove material as it would lead to severe tissue damage.

Storage & Packing

- Storage:-A minimum shelf life of 12 months when stored in cool and dry and covered place.
- Packing:-25kg. HDPE/PP Bag.



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SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi - 110007 (India)
An ISO - 9001, 14001 & OHSAS 18001 Certified Institute

Website : www.shriraminstitute.org
E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE

NO. : C1/0000049947

Issued To:

Client Code : R0463
ROADMARK INDIA
PLOT NO. 8 STREET NO. 8, KADIPUR
INDUSTRIAL AREA
GURGAON
HARYANA-122002
Kind Attn: MR. SHEETAL JAIN

Date 03/08/2016

Job No. 1607-1-182-1738

Booking No. RG1617/1/3498

Booking Date 16/07/2016

Customer Ref No. -

Customer Ref Date 07/07/2016

Sample Description :

ONE SAMPLE DESCRIBED AS THERMOPLASTIC ROAD MARKING MATERIAL.
IDENTIFICATION MARK "TUFF" WAS RECEIVED.

"The sampling was not carried out by Shriram Institute for Industrial Research. The sample details provided in the test certificate are based on declaration by the party"

RESULT: (AS PER MORTH SPECIFICATION Table, 800-3, clause No.803.4)

S.No.	Test	Observation	Requirement	Conformity
1	Drying Time	Less than 15 minutes	Less than 15 minutes	Yes
2	Softening Point, °C	94	102±9.5	Yes
3	Luminance %	88	65 Min	Yes
4	Skid Resistance	45	Not less than 45	Yes
5	Binder Content, %	22.6	18.0 Min	Yes
6	Cracking Resistance at low temp	The material showed no cracks on application to concrete blocks	The material shall show no cracks on application to concrete blocks	Yes
7	Glass Beads, (% by Wt.)	31	30-40	Yes
8	Titanium Dioxide (as TiO ₂)(% by Wt.)	10.3	10.0 Min	Yes

AUTHORISED SIGNATORY

EMPLOYEE CODE : (511)



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SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi - 110007 (India)

An ISO - 9001, 14001 & OHSAS 18001 Certified Institute

Website : www.shriraminstitute.org

E-mail id : customercare@shriraminstitute.org

TEST CERTIFICATE

NO.: C1/0000049947

9	Calcium Carbonate and Inert Filler, %	36.1	42.0 Max.	Yes
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Method of Test: As per Guidelines of:
MORTH, BS: 3262 Part-1-1989, AASTHO
M-249 & Standard Method of Chemical
Analysis by N.H.Furman X-Rite Spectrophotometer

D.O.R.: 16.07.2016

D.O.C.: 03.08.2016

GC-01(Rev-05)

Page 2 of 2

AUTHORISED SIGNATORY
EMPLOYEE CODE : (511)

Phone : 91-11-27667267, 27667983, 27667860

Fax : 91-11-27667676, 27667207

See overleaf for terms & conditions

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भारत सरकार
Government of India

FORM NO. I/TH/RULES

राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)
National Test House (Eastern Region)

३१९ जजपुर कोर्ट रोड, अलीपुर, कोलकाता - ७०० ६२७
31/1, Judges' Court Road, Alipore, Kolkata - 700 027

परीक्षण प्रमाण पत्र

TEST CERTIFICATE

INTERFIRMAL REPORT

ग्राहक का नाम व
Test Certificate No.
KMSRUPGPR0000000000

बारी होने की तिथि
Date of Issue:
29/05/2016

पेज नं.
Code No.
IAR0499509662

पृष्ठ
Page
1

पृष्ठों की संख्या
No of Pages
4

किसे जारी किया है
Issued To

ROAD MARK INDIA

पता
Address

Plot No. 8, Street no. 8, Kadirpur Industrial Area, Durgam,
Hayatnagar - 720001.

पाठक का संदर्भ नं.
Customer's Ref. No.

REL

Date: 30/11/2002

रजिस्टर नं. एवं विवरण
Register No & Desc

0023BNTHEBRUCHP/G/106/2016

Thermoplastic Road Marking Material

विवरण सामग्री का विवरण
Description of Test Item

NH

विवरण सामग्री का वर्णन
Mark/Labeling of Test Item

नमूना का विवरण (यदि हो)
Product Specification (If any)

IS:257 Table 833.4.2

नमूने प्राप्ति की तिथि
Date of Receipt of the Test Item

21/06/2016

अर्थ प्रदर्शन की विधि
Details of Performance of Tests

From : 21/06/2016

To : 28/06/2016

वास्तविक प्रयोग की विधि
Method(s) used for Test

As per IS:2262,Part-I,1989

नमूने परीक्षा की प्रारंभिक विधि
Sampling Procedure where relevant

As per specification

Tested By

Vaidy Kumar A. Rani
Vaidy Kumar A. Rani
GO Chemicals

Checked By

Rajni Sarkar De
Rajni Sarkar De
Scientist-3D(Chemical)

Approved By

Rajni Sarkar De
Rajni Sarkar De
Scientist-3D(Chemical)

भारत सरकार
Government of India

FORM NO.: ITM/HQ/PV-3

राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र)
National Test House (Eastern Region)

11/5 जजिम कोर्ट रोड, अलीपुर, कोलकाता - 700 027
11/5 Judges' Court Road, Alipore, Kolkata - 700 027

असह्य संकेत

परीक्षण प्रमाण पत्र

TEST CERTIFICATE

INTERFACIAL REPORT

प्रतिष्ठान संख्या एवं से.

Test Certificate No.
ANR/KUCN/P2024042418

बारी होने की तिथि

Date of issue
28/06/2016

क्रमांक नं.

Code No.
146GAD95000002

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2

एवं की संख्या

No of Pages
4

Sl. No.	Test Name	Test Result	Limit
1	Colour	White	White or Yellow
2	Drying time	8 minutes (approx.)	Not more than 10 min.
3	Binder content, per cent by mass	21.7%	Min. 18%
4	Softening Point, deg. C	97 deg. C	102.5 (+/- 5.5)
5	Luminescence Factor, Day light, percentage	84	White: Min. 65, Yellow: Min. 45

Tested By


Virendra Kumar A. Ram
SD Chemical

Checked By

Kuma Sankar De
Scientist-SO(Chemical)

Approved By

Kumar Sankar De
Scientist-SO(Chemical)




संघ शासन
Government of India

राष्ट्रीय परीक्षण भवन (पूर्वी क्षेत्र)
National Test House (Eastern Region)

117 जज्जन् कोर्ट रोड, अलीपुर, कोलकाता - 700 027
117, Judges' Court Road, Alipore, Kolkata - 700 027

FORM NO. MTH/01/001



परीक्षण प्रमाण पत्र
TEST CERTIFICATE

परीक्षण प्रमाण पत्र नं.
Test Certificate No.
MT/01/KOL/001/000001


करी को को तिथि
Date of Issue
26/6/2016


पत्र नं.
Code No.
146495009692


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Page
3



पृष्ठों की संख्या
No of Pages
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Sl. No.	Test Name	Test Result	Limit
5	Flow Resistance	Satisfactory. No change in height of the cone after 48 hrs.	Not more than 20%
7	Solid glass bead content percent by mass	50.2%	38%-48%
8	Pigment (as Titanium Dioxide, per cent by mass	10.8%	10% Min.
9	Cracking resistance when applied on concrete block	Satisfactory. The material shows no sign of cracks on application to concrete blocks, after keeping sample at 0 deg.C for 72 hrs.	The material shall show no cracks on application to concrete blocks
10	Calcium carbonate & iron fillers, percent by mass	36.1	Max. 42%

Tested By

Vinod Kumar A. Ravi
SO Chemical

Checked By

Ratna Sarkar De
Scientist-SD (Chemical)

Approved By

Ratna Sarkar De
Scientist-SD (Chemical)

 राज्यपाल का कार्यालय Government of India	राष्ट्रीय परीक्षण शाला (पूर्वी क्षेत्र) National Test House (Eastern Region) 11/1 जजिम बाई रोड, अलीपुर, कोलकाता - 700 027 11/1, Jajim Baidi Road, Alipore, Kolkata - 700 027	FORM NO. INT/AN/RE/15 
परीक्षण प्रमाण पत्र TEST CERTIFICATE		
परीक्षण प्रमाण पत्र सं. Test Certificate No. WHE/30034/P/2019/00108	जारी होने की तिथि Date of Issue 29/06/2019	कोड नं. Code No. 1466495500802
		पृष्ठ Page 4
		पृष्ठों की संख्या No. of Pages 4
ST. No. दिनांक Date किराई Remarks	Test Name Test Result Limit	
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Our Road Safety Products



Road Studs



Speed Breakers



Delineators



Solar Road Studs



Safety Cones



Safety Cones with Caution Sign & Chain



Removable Signs



Convex Safety Mirror



Delineator Post



LED Baton Torch



Road Signages



Road Baricades



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Head Office

Plot No. 8, Gali No. 8, Kadipur Industrial Area, Pataudi Road, Gurgaon 122001 (Haryana)

Ph. : 9899932211, 8447755607 Website : www.roadmarkindia.com

E-mail : roadmarkindia@gmail.com, info@roadmarkindia.com

Branch Office

Plot No. 37-A, Laxman Puri, Lucknow (226016) Uttar Pradesh

Ph. : 9415080353, 9621204696

E-mail : roadmarkup@gmail.com