

**RETRO REFLECTIVE
HOT MELT
THERMOPLASTIC
ROAD MARKING
MATERIAL**

Marking Roads Safe, Seen And Secure.



ABOUT US

UNITECH INFRA LTD is established to undertake the manufacturing of SMART BRAND OF HOT MELT THERMOPLASTIC ROAD MARKING MATERIAL of the highest quality for national & international market. Different model under UNITECH like “SMART BRAND” gives better whiteness, flow, coverage, grip, life & retro reflectivity in its category as compared to its competitors at competitive prices.

- White colour retro-reflective material as per BS 3262 specification.
- Yellow colour retro-reflective material as per BS 3262 specification.
- Retro-reflective GLASS BEADS as per BS 6088 specification.

The above material can be applied on bitumen & concrete surfaces with hand push TRM application PRAM or automatic TRM application machine at 200 C maximum. The standard consumption of road marking to achieve 2.5mm thickness per square meter is 5 kg along with drop of glass beads 250gms.

VISION & VALUE SYSTEM

Our vision at UNITECH INFRA LTD is to make UNITECH “SMART BRAND” a world class brand in the field of manufacturing of hot melt thermoplastic road marking material industry and to set high quality standards. Unitech works for its team growth, client delight & for ensuring faith of our supplier and clients. Unitech pledge to work hard with quality, speed & ethics. We are committed to leave positive bench mark by bringing in constant innovations in our work process.

STRENGTH

- By virtue of our establishment inside KENYA, we import the best quality of resin, titanium and glass beads from the world’s best manufacturers required to produce a high quality compound.
- Our State of art automatic plant in Nairobi and product development team ensure the consistency in quality of the product in all batches of production.
- Our already well established marketing network in KENYA helps to make the product available in all parts of the country.
- Product comes in best of the packing and is tested by the chemistry test laboratory in house and also Ministry of Road chemistry laboratory.
- By virtue of our own experienced application team we also have the ability to undertake the turnkey projects for the application job of any nature and any quantity and in any terrain.

WHY UNITECH

Trust upon UNITECH SMART BRAND Road Marking Material, can be supported by several reasons like:

- High quality Road Marking Material.
- Prompt Supply.
- Expert Professional Workforce.
- High Business Ethics.
- Transparent Deals.
- Precision in Production.
- Absolute Customer Satisfaction.
- Custom made Solutions.



ADVANTAGES WITH UNITECH PRODUCT

- Kenya Bureau Of Standards (KEBS) Certified.
- Ministry of Roads and Transport State Department of Roads Lab Test Certificate.
- Gets dry in few minutes enabling the road to be opens quickly for traffic.
- Increase the visibility of road marking, resulting in safe night driving.
- Compound is 100% solid that hardens by cooling. Unlike Conventional traffic paint, no solvents are released into the atmosphere and no contaminated packaging needs disposals.
- Although the initial cost per sq. meter may be more than liquid paint but thermoplastic material is more durable (up to 6 times) and therefore more cost effective than other alternatives.
- Ministry of Roads and Transport State Department of Roads Lab Test Certificate

RANGE OF UNITECH ROAD MARKING PRODUCTS

- White colour retro-reflective material as per BS 3262 specification.
- Yellow colour retro-reflective material as per BS 3262 specification.
- Retro-reflective GLASS BEADS as per BS 6088 specification.

The above material can be applied on bitumen & concrete surfaces with push TRM application or automatic TRM application machines at 200°C maximum. The standard consumption material at 2.5mm thickness is 5kg. & Glass beads 250gms per square

THERMOPLASTIC ROAD MARKING MATERIAL

- Thermoplastic paint is a road marking material based on thermoplastic petroleum resin, with high-quality pigments and additives as auxiliary materials. The marking line used as the raw material has the advantages of quick-drying, easy construction, good light reflection, and long service life. UNITECH INFRA is the only enterprise in Kenya that can simultaneously produce international standard hot-melt thermoplastic road marking material such as American Standard, British Standard, and can accept personalized non-standard customization according to customer requirements. According to different product production standards, SMART BRAND hot melt thermoplastic road marking material is divided into national standard (including KeNHA, KURA, KeRRA), American standard, British standard, and custom label.



APPLICATION PRECAUTIONS & METHOD OF APPLICATION

- Surface should be dry and should be free from dust particles, any type of oil, Grease, moisture, cracks and excessive bleeding of bitumen.
- If Road Marking Material has to be applied over previous cold paint marking then the previous paint should be removed by wire brushes to let longer bonding properties.
- The road to be marked should be closed for traffic for at least 30 minutes so that compound can make stronger grip with the surface.
- Material should be first melted into a boiler and then it should be taken into hand push application machine or into automatic machine.
- One Should ensure that Glass beads dispensers are sprinkling the required quantity uniformly.



- Material in the boiler should not be over heated from the temperature range specified by the manufacturer in our material should be heated from 180 to 200 C.
- If material has to be applied over concrete road surface a coat of primer should be applied first before applying thermoplastic paint.
- Normally 400 to 500 kg of material is mixed at one time in the boiler machine at temperature of 180 to 200 C Maximum.
- Road Marking Material should be kept in dry and well - ventilated place. Normally in standard conditions shelf life of the product is one year.
- Handling Precautions: Avoid eye & skin contact and wear protective gloves and safety

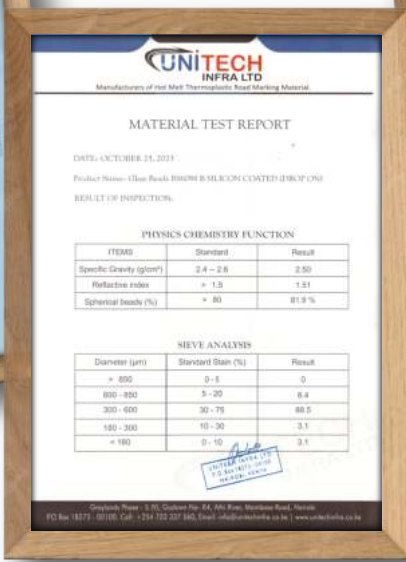
ROAD MARKING GLASS BEADS

- Reflective road marking glass beads for road markings can improve the reflective performance of road marking paint. The light of the car lights on the marking lines with glass beads, which can reflect the light of the car lights back, make the driver see the direction of travel, and improve the safety of driving at night.
- Road reflective glass beads are a kind of fine glass sphere formed by melting glass sand (waste glass) at high temperatures. Glass beads for road marking are spherical under the microscope, colorless, transparent, and the refractive index is 1.5-1.64. Between 44 and 1400 microns in diameter.



- SMART BRAND reflective road paint glass beads is white and clean, reflective micro glass beads will give good performance when used on marking line, the
- Glass beads for road marking are widely used on city road lines, highway pavement, and Guardrail outlines.
- With many years of experience in the manufacturing of reflective road paint glass beads, We have mature solutions of glass beads for paint, such as SMART BRAND glass beads, Drop On Glass Beads, High Index Reflective Glass Beads. The Nation-

CERTIFICATIONS



WE MAKE YOUR ROADS SAFER...

WE SHOW THE WAY...

WE SET STANDARDS...



Graylands Phase - 5(V), Godown No. - K4, Athi River, Mombasa Road, Nairobi
P.O. Box - 18273 - 00100. Mob: - +254 723 337560,
Email :- info@unitechinfra.co.ke | Web :- www.unitechinfra.co.ke